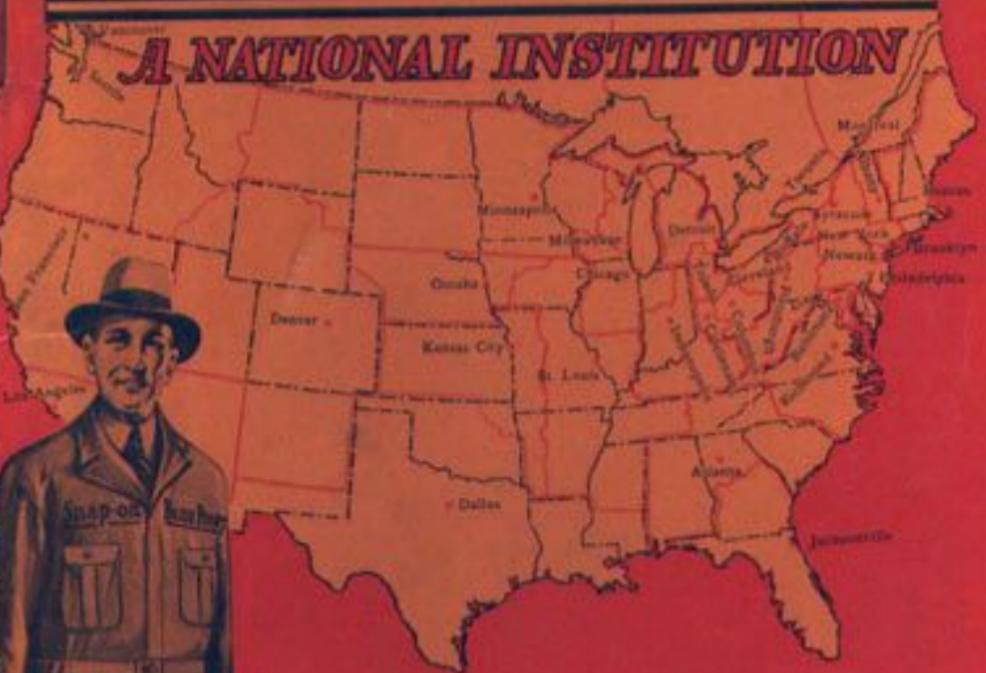


Snap-on Blue-Point

A NATIONAL INSTITUTION



**15 YEARS
RELIABLE
SERVICE**

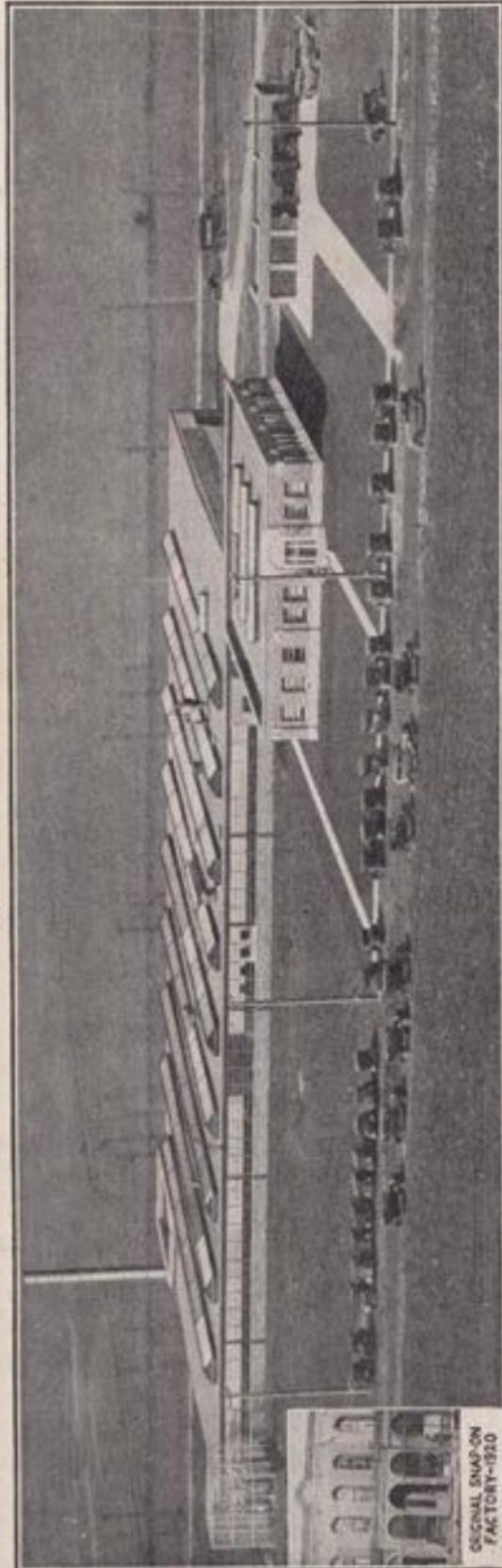
CATALOG "KA"
ISSUED JUNE 1ST, 1935
Supersedes all Previous Catalogs

SNAP-ON TOOLS, INC.
1845 S. Flower Street, Los Angeles, Calif.
Telephone: Prospect 5548

SNAP-ON TOOLS, INC.
Branches in 33 Principal Cities



Fifteen Years of Pioneering Good Tools and Personal Service



"Five Handles and Ten Sockets"—"Five Handles do the work of Fifty." Many of you old timers heard this statement from a Snap-On Salesman fifteen years ago and it was "News." It was a new idea then but almost standard practice now. Compactness plus low cost per combination was a great step forward in "Nut Turning." This conception of socket wrenches changed an entire industry from fixed sockets to interchangeable socket wrenches.

The next step was better steel—thinning down the walls of the socket, better heat treating, better finish, plating etc., on thru to the straight wall electric furnace alloy steel socket of today. Snap-On has pioneered the following major developments in common use today—Master $\frac{1}{2}$ " drive, Midget $\frac{3}{8}$ " drive, Ferret $\frac{5}{8}$ " drive, Heavy Duty $\frac{3}{4}$ " drive and Extra Heavy Duty 1" drive Socket Wrenches, also Midget to Heavy Duty Boxocket Wrenches.

Snap-On led the way introducing these lines, but great tribute and appreciation is due thousands of practical mechanics who made suggestions to our salesmen as to what they wanted and needed in their daily work.

Today there are over 1600 tool items in the Snap-On—Blue-Point line and over 350 salesmen rendering a regular periodic service to your work bench.

It was once said you could build a better mouse trap and the public would find a way through the forest to buy it. Snap-On has made better tools—and are pledged to continue our high quality service in the future as we have in the past, and we thank thousands of Snap-On users for making the above factory possible.

Direct to Your Bench— The Most Complete Line of its Kind

Nut Turning Equipment—
Small Hand Tool Equipment—
Special Tools for Popular Cars—
Special Airplane Tools and
Selected Shop Equipment Tools

Snap-On and Blue-Point tools are built by highly skilled mechanics. Their design and quality is recognized as the standard by which all other tools of their kind are judged.

Compare Snap-On—Blue-Point tools alongside any other make which you consider to be of high quality and let the actual working performance determine their comparative values. This is the only basis upon which we can prove their superior quality and is the basis upon which we solicit your patronage.

The electric furnace high carbon alloy tool steels used in all Snap-On—Blue-Point tools are the finest modern science can produce. Our electric furnace hardening and tempering equipment is considered to be the most complete and modern in the small tools industry.

ALL PRICES ARE NET TO THE TRADE

(Prices subject to change without notice)

OUR GUARANTEE

Pursuant to Industry Code all express guarantees are withdrawn and are limited to defects in materials and workmanship. No claims will be allowed until after shipment is received and determination by us of defect.

Manufactured and Distributed Exclusively

by

SNAP-ON TOOLS, INC.

Kenosha, Wis.

Thirty-Four Branches—Over 425 Salesmen. See List on
Inside Back Cover

Midget Wrench Sets

Trade Mark

All Units made with $\frac{1}{32}$ " Square Drive

MAKES easy work of tricky carburetor and ignition jobs. Great also for all small electrical bench work—and for radio you can't afford to be without this set of Midget size Snap-Ons. Gives you socket wrench speed on numerous little nuts that are extremely annoying to work on unless you have the right tools. New Midget Ratchet of improved design. Very small handles, with double broached sockets of thin, straight wall design for easy operation in tightest places. Same quality and polished chrome finish as the larger sizes of Snap-On wrenches.

No. 55 Midget Set

Contains 10 Units

For the mechanic who wishes to start with the most popular and necessary items and gradually build up his "Midget" equipment. Contains a Speeder Tee Handle, Sliding Tee and Offset Handle, two square and six most needed sizes of Hexagon Sockets.

No. 55 Midget Set—Complete in grey enameled metal box. \$2.75



No. 56 Midget Set

Contains 16 Units

A real utility set of small units for the mechanic working on Carburetion, Ignition, Radio and other similar jobs. Motion Picture machine operators will also find this set to be just what they need for making adjustments.

It contains a dandy Reversible Ratchet, Speeder Tee, Sliding Tee, Wood Handle for electrical work, Extension Bar, and special Screw Driver Socket, two square Sockets $\frac{1}{4}$ " and $\frac{5}{16}$ " and eight sizes of hexagon Sockets $\frac{1}{8}$ " to $\frac{1}{16}$ ".

No. 56 Midget Set—Complete in grey enameled metal case. \$5.05

See pages 3 and 4 for complete descriptions and sizes of all Midget ($\frac{1}{32}$ " drive) units.

Miniature Socket Wrenches with a Thousand Uses

It is not a genuine **Snap-on** *without the name*

Reg. U. S. Pat. Off.

Midget Handles

$\frac{9}{32}$ " Square Drive

Midget Ratchet Wrench



Stock No.	Square Drive	Head Thickness	Overall Length	Price
M-70	$\frac{9}{32}$ "	$\frac{1}{4}$ "	$3\frac{11}{16}$ "	\$0.80

Midget Sliding Tee



Stock No.	Square Drive	Head Depth	Handle Diam.	Handle Length	Price
M-5	$\frac{9}{32}$ "	$1\frac{3}{16}$ "	$\frac{5}{16}$ "	$4\frac{1}{2}$ "	\$0.45

Midget Extension Bar



Stock No.	Square Drive	Shank		Price
		Diam.	Length	
M-2	$\frac{9}{32}$ "	$\frac{1}{2}$ "	2"	\$0.40

Midget Speed Tee



Stock No.	Square Drive	Shank Length	Tee Width	Price
M-3	$\frac{9}{32}$ "	6"	$3\frac{5}{8}$ "	\$0.75

Midget Ignition Handles



M-4 has Black enameled wood handle.
M-40 has Amber Pyralin handle.

Stock No.	Square Drive	Shank Length	Overall Length	Price
M-4	$\frac{9}{32}$ "	$1\frac{7}{16}$ "	$5\frac{1}{8}$ "	\$0.50
M-40	$\frac{9}{32}$ "	$\frac{9}{32}$ "	$3\frac{13}{16}$ "	.65

Midget Adaptor

Stock No.	Handle End	Drive End	Outside Diam.	Overall Length	Price
M-1	$\frac{3}{8}$ "	$\frac{9}{32}$ "	$\frac{5}{8}$ "	$1\frac{1}{6}$ "	\$0.35

Screw Driver Socket

Stock No.	Blade		Outside Diam.	Overall Length	Price
	Width	Thickness			
M-21	$\frac{1}{4}$ "	.038	$\frac{1}{2}$ "	1"	\$0.30

Midget Universal Joint

Stock No.	Square Drive	Outside Diam.	Overall Length	Price
MU-8	$\frac{9}{32}$ "	$\frac{5}{8}$ "	$1\frac{19}{32}$ "	\$0.95



Windshield Wiper Sockets

Designed to service oval-headed screws such as those used on windshield wipers, etc.

M-22— $\frac{13}{32}$ " x $\frac{7}{16}$ " Oval opening. Each..... \$0.20

M-23— $\frac{1}{2}$ " x $\frac{7}{16}$ " Oval opening. Each..... .20

Midget Units Were Pioneered by Snap-On

Midget Sockets

$\frac{9}{32}$ " Square Drive

ALL Midget Sockets are designed with straight, thin walls, permitting them to be used where the clearance space is extremely limited. The three smallest Hexagon Sockets are broached with a single Hexagon opening and the rest with a double Hexagon.

Double Hexagon



Hexagon Sockets

Double Square

Size of Openings in ins.	Hexagon Sockets		Outside Diameter		Overall L'gth	SAE	USS Nuts	USS Cap Sc.	American Standard	
	Stock No.	Price	Soc't. End	Drive End					Nuts	Cap Sc.
$\frac{3}{16}$	M-6	\$0.15	.313	$\frac{1}{2}$	$\frac{7}{8}$	...	...	...	...	...
$\frac{5}{32}$	M-7	.15	.353	$\frac{1}{2}$	$\frac{7}{8}$	...	...	...	...	...
$\frac{1}{4}$	M-8	.15	.388	$\frac{1}{2}$	$\frac{7}{8}$	...	...	...	...	...
$\frac{9}{32}$	M-9	.15	.430	$\frac{1}{2}$	$\frac{7}{8}$	...	...	...	...	...
$\frac{5}{16}$	M-10	.15	.472	$\frac{1}{2}$	$\frac{7}{8}$	...	$\frac{1}{8}$	$\frac{1}{8}$	...	...
$\frac{11}{32}$	M-11	.15	.500	$\frac{1}{2}$	$\frac{7}{8}$	...	...	...	...	...
$\frac{3}{8}$	M-12	.15	.542	$\frac{9}{16}$	$\frac{7}{8}$	...	...	...	$\frac{3}{16}$	...
$\frac{7}{16}$	M-14	.15	.625	$\frac{5}{8}$	$\frac{7}{8}$	$\frac{1}{4}$	...	...	$\frac{1}{4}$	$\frac{1}{4}$

Double Broached Square

Size of Openings in ins.	Double Sq. Sockets		Outside Diameter		Overall L'gth	USS sq. Hd. Cap Sc.	USS sq. Hd. Set Sc.	USS Sq. Nuts	American Standard	
	Stock No.	Price	Soc't. End	Drive End					Sq. Nuts	Sq. Cap Sc.
$\frac{1}{4}$	M-408	\$0.15	.470	$\frac{1}{2}$	$\frac{7}{8}$	...	...	...	$\frac{1}{4}$	...
$\frac{5}{16}$	M-410	.15	.562	$\frac{9}{16}$	$\frac{7}{8}$	...	...	...	$\frac{5}{16}$	...

Carburetor Sockets

$\frac{9}{32}$ " Square Drive

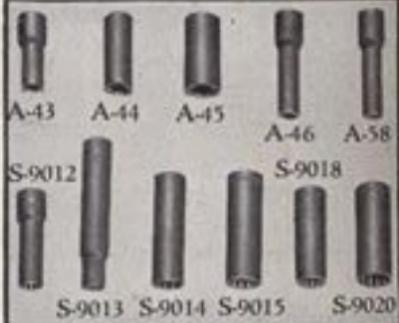
Special deep Sockets designed for adjusting carburetor jets, etc. Fit Midget Handles.

For Float Needle Valve Seats and High Speed Metering Jets

No.	Prong	Size	In-	Out-	L'gth Ea.
			of	side	
A-43	$\frac{5}{64} \times \frac{1}{16}$	$\frac{1}{4}$	$\frac{3}{16}$	$1\frac{1}{2}$	45c
A-44	$\frac{5}{64} \times \frac{1}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$1\frac{1}{2}$	45c
A-45	$\frac{5}{64} \times \frac{1}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$1\frac{1}{2}$	45c

A-46—Special Oval opening Socket for the jet on Stromberg carburetors on all cars except Ford. Each..... 45c

A-58—Special Oval opening Socket for Stromberg Carburetor Jet on 1933-34 Ford V-8. Each..... 45c



Deep Hexagon Carburetor Sockets

Stock No.	Size of Opening	Overall Length	Outside Diameter		Price
			Socket End	Drive End	
S-9012	$\frac{5}{16}$	$1\frac{3}{4}$	.420	$\frac{1}{2}$	\$0.45
S-9013	$\frac{9}{32}$	$2\frac{5}{8}$	.406	$\frac{1}{2}$	.45
S-9014	$\frac{13}{32}$	2	.562	$\frac{9}{16}$	.45
S-9015	$\frac{7}{16}$	2	.625	$\frac{5}{8}$	.45
S-9018	$\frac{3}{8}$	$1\frac{3}{4}$	.525	$\frac{9}{16}$	.45
S-9020	$\frac{1}{2}$	$1\frac{3}{4}$	.672	$\frac{43}{64}$	.45

Deep Hexagon Sockets for Radio Work

SM-11— $\frac{11}{32}$ " Opening, 2" Length. Each..... 45c
SM-12— $\frac{3}{8}$ " Opening, 2" Length. Each..... 45c

A Complete Range of Midget Socket Wrenches

Refrigeration Service Set

9/32" Square Drive

THE installation and servicing of refrigeration equipment requires specially designed tools as well as a proper selection of standard wrenches and other small hand tools. The Snap-on Refrigeration Set contains one each of all the units listed below.

R-2B Refrigeration Set with F-70A2

Ratchet—complete in Metal Box \$8.80

R-1B Refrigeration Set with R-7

Ratchet—complete in Metal Box \$7.65

F-70A2 Ratchet

A strong practical Ratchet especially designed with a $\frac{1}{4}$ " square opening for work on valve stems. The tool is a one-piece forging with all working parts accurately machined and finished. Action is always smooth. Each.....\$2.50

R-7 Ratchet



Designed for those who want a good $\frac{1}{4}$ " drive ratchet at low cost. Strongly constructed with easy ratchet action. Each.....\$1.35



Extension Bar

Stock No.	Plug End	Drive End	Ext. Length	Adapts Above Ratchets to all	Price
R-1 1/2	$\frac{1}{4}$ "	$\frac{9}{32}$ "	$2\frac{5}{16}$ "	Midget— $\frac{9}{32}$ " Drive Units	\$0.40

Ratchet Plugs

Stock No.	Plug End	Drive End	Adapts above Ratchets to all	Price
R-12	$\frac{1}{4}$ "	$\frac{3}{8}$ "	Ferret— $\frac{3}{8}$ " Drive Units	\$0.35
R-13	$\frac{1}{4}$ "	$\frac{9}{32}$ "	Midget— $\frac{9}{32}$ " Drive Units	.35

Kerotest Valve Packing Nut Socket

Stock No.	Oval Opening		Outside Diameter	Overall Length	Price
	Long	Wide			
R-6	$\frac{1}{2}$ "	$\frac{3}{8}$ "	$\frac{5}{8}$ "	$1\frac{1}{2}$ "	\$0.65

Square Valve Stem Sockets

Square Sockets		Outside Diameter		Overall Length	Price
Stock No.	Size	Socket End	Drive End		
R-406	$\frac{3}{16}$ "	.437"	$\frac{1}{2}$ "	$\frac{7}{8}$ "	\$0.20
R-407	$\frac{7}{32}$ "	.468"	$\frac{1}{2}$ "	$\frac{7}{8}$ "	.20
R-408	$\frac{1}{4}$ "	.532"	$\frac{3}{16}$ "	$\frac{7}{8}$ "	.20
R-410	$\frac{5}{16}$ "	.625"	$\frac{5}{8}$ "	$\frac{7}{8}$ "	.20
R-412	$\frac{3}{8}$ "	.687"	$1\frac{1}{16}$ "	$\frac{7}{8}$ "	.25

Packing Gland Nut Sockets

Stock No.	Prong		Diameter		Overall Length	Price
	Depth	Width	Inside	Outside		
R-1	$\frac{3}{32}$ "	$\frac{5}{64}$ "	$\frac{5}{16}$ "	$\frac{7}{16}$ "	$1\frac{1}{2}$ "	\$0.45
R-2	$\frac{5}{32}$ "	$\frac{1}{8}$ "	$2\frac{1}{64}$ "	$1\frac{15}{32}$ "	$1\frac{1}{2}$ "	.45
R-3	$\frac{1}{8}$ "	$\frac{1}{8}$ "	$2\frac{9}{64}$ "	$1\frac{11}{16}$ "	$1\frac{1}{2}$ "	.45
R-4	$\frac{3}{32}$ "	$\frac{5}{64}$ "	$\frac{9}{16}$ "	$1\frac{13}{16}$ "	$1\frac{1}{2}$ "	.45
R-5	$\frac{3}{32}$ "	$\frac{7}{64}$ "	$\frac{5}{16}$ "	$\frac{9}{16}$ "	$1\frac{1}{2}$ "	.45

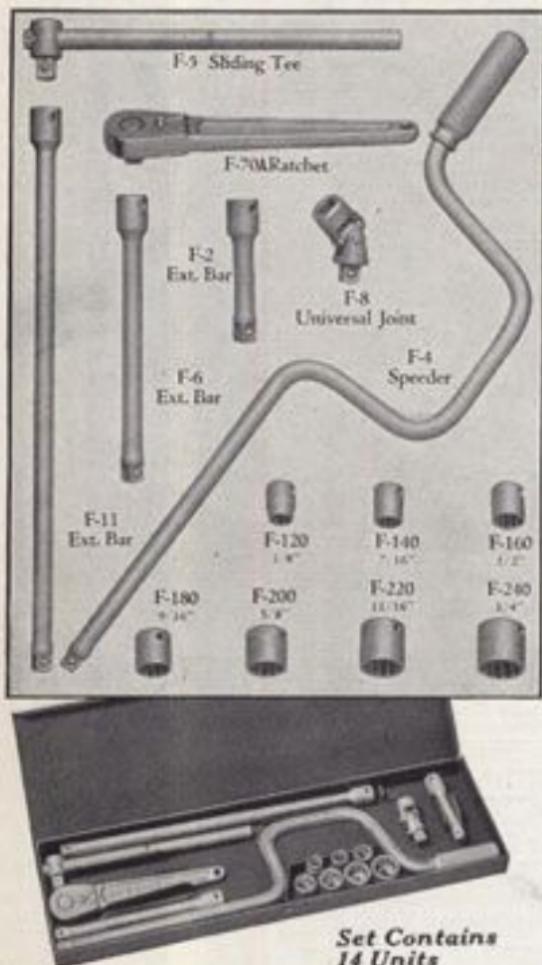
Hexagon Sockets F-140, F-160 and F-180 are $\frac{9}{32}$ " drive. See page 8 for specifications and prices.

Refrigeration Service Demands These Special Tools

Snap-On Ferret Sets

Trade name "Ferret" Reg. U. S. Pat. Off.

All Ferret Units made with $\frac{3}{8}$ " Square Drive



Set Contains
14 Units

finest reversible ratchet handle we have ever offered, a combination Sliding Tee and Offset Handle, a Long Speeder Handle and a Universal Joint give you every possible handle hookup.

No. 80 Ferret Set—Complete in the handiest Ferret Tool Case we ever devised, as illustrated. \$11.05

No. 81 Ferret Set

This is an ideal selection of Ferret units for the man who wishes to start in a small way and gradually build his Ferret equipment to cover the complete line. It contains a practical selection of basic units, seven most needed Sockets, Reversible Ratchet, Speeder Handle and 8' Extension Bar.

A selection like this gives you a sound basis of essential units at reasonable cost, and additional items can be added as you feel the need for them.

THESE units, like the ferret, squeeze into the tightest places and get those almost hidden nuts or bolts. Also, like the ferret, they are twice as strong as you would expect such slender handles and shallow, thin-walled type of sockets to be. We were the sole originators of this type of socket wrench and coined the name "Ferret" which exactly describes the efficiency of these tools in easing up and speeding up jobs in tight and hard-to-reach places. Ask Ferret users.

No. 80 Ferret Set

No. 80 Ferret Set comprises the units that every practical mechanic requires in every day work. It has been for years, and still is, one of the most popular wrench sets in the Snap-on line. Thousands of mechanics have purchased it and recommend it wholeheartedly for close quarter work on small and medium size nuts. It contains the seven handles and seven double broached hexagon sockets shown at the left—a practical time saving tool selection that will repay you many times the initial cost. Three Extension Bars, 3", 6", and 12" to reach down where no other tool will go. The



Set Contains
10 Units

No. 81 Ferret Set—Complete in Special Metal Case as shown \$7.80

No Tool Kit Is Really Efficient Without a Ferret Set

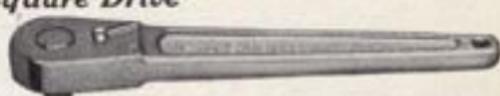
It is not a genuine Snap-on without the name

Reg. U. S. Pat. Off.

Ferret Handles

3/8" Square Drive

Reversible Ratchet



Stock No.	Square Drive	Head Thickness	Overall Length	Price
F-70A	3/8"	33/64"	6 5/8"	\$2.50

Ferret
Sliding Tee



Stock No.	Square Drive	Handle Diameter	Handle Length	Head Depth	Price
F-5	3/8"	7/16"	8"	1 3/16"	\$0.75

Ferret Speed Tees

Stock No.	Sq. Drive	Shank		Handle Length	Price
		Diam.	Length		
F-3	3/8"	1/2"	12"	6 1/2"	\$1.00
F-19	3/8"	1/2"	24"	8"	1.35

Ferret Sockets

$\frac{3}{8}$ " Square Drive

Double Broached Hexagon

THE illustration shows you how extremely thin walled and shallow Ferret sockets are. This exclusive Snap-on design makes quick, easy work of the many jobs in very cramped places on present day cars of compact design where no other type of wrench will reach.



Size of Openings in ins.	Double Hex. Sockets		Outside Diameter		Overall L'gth	SAE	USS Nuts	USS Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Nuts	Cap. Sc.
$\frac{3}{8}$	F-120	\$0.30	.530	$\frac{5}{8}$	$27\frac{1}{2}$	...	...	$\frac{3}{16}$	...	$\frac{1}{4}$
$\frac{7}{16}$	F-140	.30	.609	$\frac{5}{8}$	$27\frac{1}{2}$	$\frac{1}{4}$	...	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
$\frac{1}{2}$	F-160	.30	.687	$11\frac{1}{16}$	$27\frac{1}{2}$	$\frac{5}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	...	$\frac{5}{16}$
$17\frac{3}{32}$	F-170	.30	.750	$\frac{3}{4}$	$27\frac{1}{2}$	...	...	...	...	...
$\frac{9}{16}$	F-180	.30	.750	$49\frac{1}{64}$	$27\frac{1}{2}$	$\frac{3}{8}$	...	$\frac{3}{8}$	$\frac{5}{16}$	$\frac{3}{8}$
$19\frac{3}{32}$	F-190	.30	.812	$13\frac{1}{16}$	$27\frac{1}{2}$	...	$\frac{5}{16}$	...	...	...
$\frac{5}{8}$	F-200	.30	.875	$\frac{7}{8}$	$27\frac{1}{2}$	$\frac{7}{16}$	...	$\frac{7}{16}$	$\frac{3}{8}$	$\frac{7}{16}$
$11\frac{1}{16}$	F-220	.35	.937	$15\frac{1}{16}$	1	...	$\frac{3}{8}$	...	...	...
$\frac{3}{4}$	F-240	.35	1.000	1	1	$\frac{1}{2}$	...	$\frac{1}{2}$	$\frac{1}{16}$	$\frac{1}{2}$

Extra Deep Double Hexagon

STRAIGHT, thin-walled, double broached hexagon sockets that can be used to very great advantage on running board channels, body and fender support bolts and many other similar jobs. They will greatly increase the utility of your Ferret Handles.

Size of Openings in ins.	Double Hex. Sockets		Outside Diameter		Overall L'gth	SAE	USS Nuts	USS Cap. Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Nuts	Cap. Sc.
$\frac{7}{16}$	SF-140	\$0.45	.625	$\frac{5}{8}$	$1\frac{3}{4}$	$\frac{1}{4}$	...	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
$\frac{1}{2}$	SF-160	.45	.687	$11\frac{1}{16}$	$1\frac{3}{4}$	$\frac{5}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	...	$\frac{5}{16}$
$\frac{9}{16}$	SF-180	.45	.750	$\frac{3}{4}$	2	$\frac{3}{8}$	...	$\frac{3}{8}$	$\frac{5}{16}$	$\frac{3}{8}$
$\frac{5}{8}$	SF-200	.45	.875	$\frac{7}{8}$	$2\frac{1}{4}$	$\frac{7}{16}$	...	$\frac{7}{16}$	$\frac{3}{8}$	$\frac{7}{16}$
$11\frac{1}{16}$	SF-220	.65	.937	$15\frac{1}{16}$	$2\frac{1}{2}$	...	$\frac{3}{8}$	...	...	...

Flexible Double Hexagon

EXTREMELY small overall measurements which means much greater efficiency in tight places. Working at any angle up to 90° they are great time and labor savers on many hard-to-get-at jobs. They are the same shallow, thin-walled design as the standard Ferret Hexagon Sockets.



Size of Openings in ins.	Flexible Hex. Sockets		Outside Diameter		Overall L'gth	SAE	USS Nuts	USS Cap. Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Nuts	Cap. Sc.
$\frac{7}{16}$	F-14	\$1.35	.609	$\frac{5}{8}$	$1\frac{1}{2}$	$\frac{1}{4}$	...	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
$\frac{1}{2}$	F-16	1.40	.687	$\frac{5}{8}$	$1\frac{1}{2}$	$\frac{5}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	...	$\frac{5}{16}$
$\frac{9}{16}$	F-18	1.45	.750	$11\frac{1}{16}$	$1\frac{9}{16}$	$\frac{3}{8}$	...	$\frac{3}{8}$	$\frac{5}{16}$	$\frac{3}{8}$
$\frac{5}{8}$	F-20	1.45	.843	$11\frac{1}{16}$	$1\frac{11}{16}$	$\frac{7}{16}$	...	$\frac{7}{16}$	$\frac{3}{8}$	$\frac{7}{16}$

Ferret Sockets

$\frac{3}{8}$ " Square Drive

Double Broached Square

FIVE popular sizes of square sockets made in standard Ferret shallow thin-walled type. Electric furnace high carbon steel gives these small sockets the "guts" to stand every day professional service.

Size of Openings in ins.	Double Square Sockets		Outside Diameter		Overall L'gth.	USS Sq. Nut	USS Sq. Hd. Cap. Sc.	USS Sq. Hd. Set Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Sq. Nuts	Sq. Cap. Sc.
$\frac{1}{4}$	F-408	\$0.30	.474	$\frac{5}{8}$	$27\frac{1}{32}$	...	...	...	$\frac{1}{4}$	...
$\frac{5}{16}$	F-410	.30	.562	$\frac{5}{8}$	$27\frac{1}{32}$	...	...	...	$\frac{5}{16}$	...
$\frac{3}{8}$	F-412	.30	.647	$1\frac{11}{16}$	$27\frac{1}{32}$	...	$\frac{1}{4}$	$\frac{3}{8}$	...	...
$\frac{7}{16}$	F-414	.35	.750	$\frac{3}{4}$	1	...	$\frac{5}{16}$	$\frac{7}{16}$	$\frac{1}{4}$	$\frac{1}{4}$
$\frac{1}{2}$	F-416	.35	.875	$\frac{7}{8}$	1	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	...	$\frac{5}{16}$

Extra Deep Square Sockets

DESIGNED for easy work on such jobs as running board bolts, fender bolts, body bolts, etc. There is a decided convenience in using these sizes on Ferret Handles because of the limited space in which many of these bolts and nuts must be turned.

Size of Openings in ins.	Double Square Sockets		Outside Diameter		Overall L'gth.	USS Sq. Nut	USS Sq. Hd. Cap. Sc.	USS Sq. Hd. Set Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Sq. Nuts	Sq. Cap. Sc.
$\frac{7}{16}$	SF-414	\$0.35	.755	$1\frac{13}{16}$	$1\frac{1}{2}$	...	$\frac{5}{16}$	$\frac{7}{16}$	$\frac{1}{4}$	$\frac{1}{4}$
$\frac{1}{2}$	SF-416	.40	.875	$\frac{7}{8}$	$1\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	...	$\frac{5}{16}$
$\frac{9}{16}$	SF-418	.45	.960	1	$1\frac{1}{2}$	...	$\frac{7}{16}$	$\frac{9}{16}$	$\frac{5}{16}$	$\frac{3}{8}$
$\frac{5}{8}$	SF-420	.45	1.062	$1\frac{1}{16}$	$1\frac{1}{2}$	...	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{8}$	$\frac{7}{16}$

Screw Driver Socket

F-21—For Chevrolet pan screws with F-4 Speeder. Also handy on other round, fillister and flat head screws. Special improved design, having a protecting collar with special spring action which prevents slipping.

Stock No.	Blade		Overall Length	Price
	Width	Thickness		
F-21	$\frac{7}{16}$ "	.42	$1\frac{21}{32}$ "	\$0.80

Drag Link Adjuster

F-22— $\frac{1}{2}$ " blade for tightening slotted nuts on steering gear assembly, Ford shock absorbers and wherever slotted nuts are used. Use with Ferret handles.

Stock No.	Blade		Outside Diameter	Overall Length	Price
	Width	Thickness			
F-22	$\frac{1}{2}$ "	.062	$1\frac{11}{16}$ "	$1\frac{17}{32}$ "	\$0.40

Snap-Ons Cost You Less in the Long Run

No. 25 Nut Spinner Set

All Units $\frac{1}{2}$ " Square Drive

HERE is your handy set of tools. One of these Nut Spinner sets will do more work for its size—and make those close-corner jobs easier for you—than any other socket set you have ever seen.



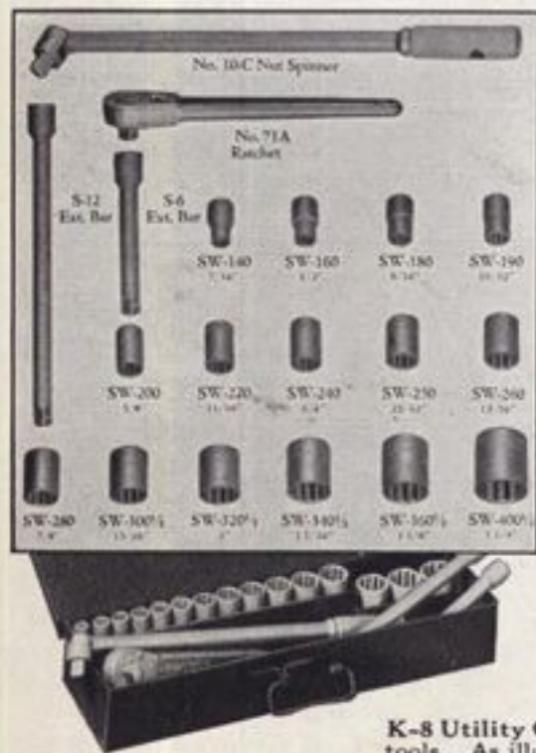
Set Contains 13 Tools

Your choice of either the No. 10-C 18", or 10-D 15", Nut Spinner Handle described on page 15; and twelve straight, thin-walled, double broached hexagon sockets with openings $\frac{1}{16}$ " to 1", described on page 18. Lots of wrench for little money.

No. 25-C—Nut Spinner Set, with 18" Handle. Tools only \$8.70
No. 25-D—Nut Spinner Set, with 15" Handle. Tools only 8.70
No. 4-B Metal Case for above sets60

No. 45 General Utility Set

FOR the professional mechanic who needs a more complete nut turning set—one that will help him beat flat-rate and increase his earnings—we recommend this General Utility Set.



Set Contains 19 Tools

This set contains, in addition to the new No. 10-C Nut Spinner handle, our new and improved Ratchet described on page 14, two Extension Bars of 5" and 10" lengths. Also the complete line of fifteen famous straight, thin-walled, double broached sockets, SW-140 to SW-400 $\frac{1}{2}$ with exception of SW-380 $\frac{1}{2}$ —giving you sizes from $\frac{1}{16}$ " to 1 $\frac{1}{4}$ " openings.

No. 45 General Utility Set—Tools only \$15.95

K-8 Utility Case, designed to hold the above tools. As illustrated. Each \$1.50

Other Metal Cases for the Above Sets

For the mechanic who prefers a larger and stronger tool case to accommodate the above sets together with his other tools, we recommend the various tool cases shown on pages 69, 70, and 71.

Nut Spinner Sets Make Close Corner Jobs Easy

No. 125 Master Service Set

Trade Mark

With Extra Thin, Straight Walled Sockets

All Units $\frac{1}{2}$ " Square Drive

SNAP-ON Master Service Set No. 125 has, for many years, been made the foundation of their tool kits by over half a million mechanics. Not only in America but in all parts of the world professional mechanics have recognized the advantage of laying a foundation for a tool kit of "matched units" and by gradually adding such items as they find they need, building the kit to the highest possible point of efficiency.

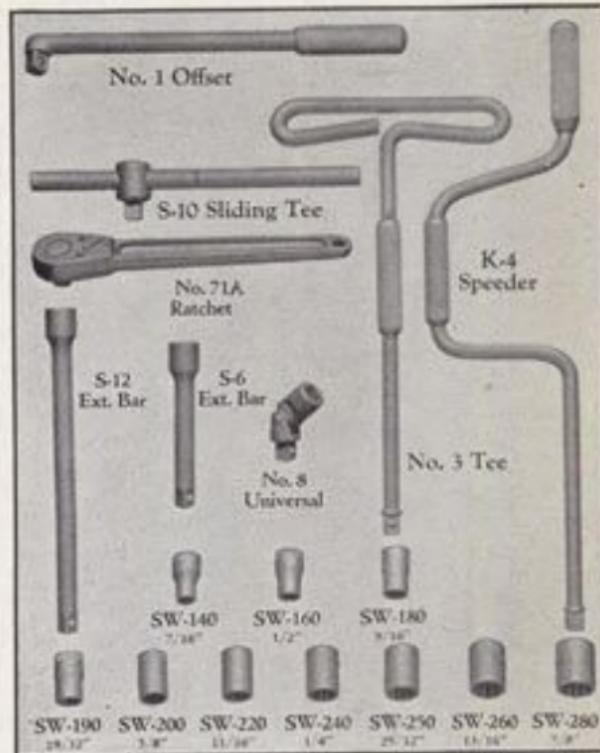
There can be no comparison between the efficiency of the mechanic equipped with the proper selection of "matched units" and the fellow with a conglomeration of various types and sizes of worn out wrenches.

Set Contains 18 Units

The most practical and necessary $\frac{1}{2}$ " drive units that the average mechanic requires. Two types of Speeder Handles, Sliding Tee, Offset Handle, two Extension Bars and the new improved Reversible Ratchet Handle

give every desired type of handle hook-up, while the smooth working Universal Joint adds flexibility and utility for those hard-to-reach nuts. Ten thin straight-wall double broached Sockets as shown at right for accessibility in tight places bring this set right up to the minute in efficiency and adaptability. All units made of electric furnace high carbon steel finished in lustrous chrome polish. It's a set you'll be proud to own.

No. 125 Master Service Set as illustrated. Tools only \$16.20



No. 126 Master Service Set

The same set of tools as shown above, but with our standard type double broached hexagon sockets illustrated at left.

No. 126 Master Service Set—Tools only.....\$15.40



No. 127 Master Service Set

Same handles as above, but with standard type single broached hexagon sockets illustrated at right.

No. 127 Master Service Set—Tools only.....\$15.40



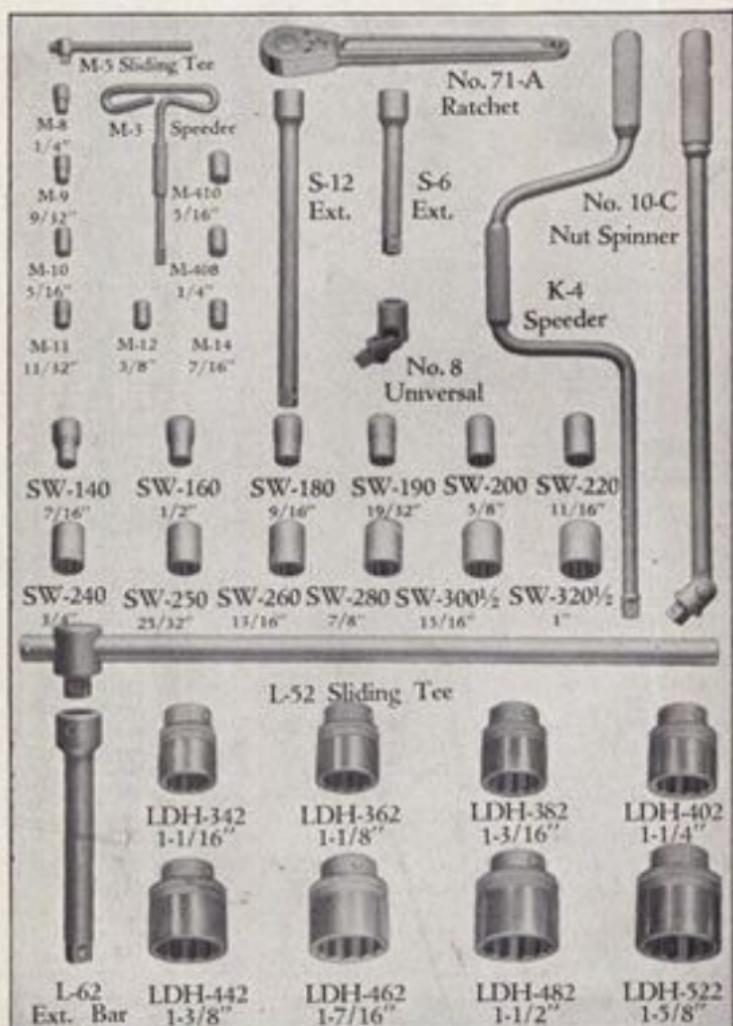
Metal Cases for Master Service Sets

Good tools deserve protection. Equip yourself with one of the splendid tool cases shown on pages 69, 70 and 71; sturdily constructed and designed to meet your requirements. There is a box to fit every kit and every purse.

There Is Only One Genuine Snap-On

No. 475 Super Service Socket Wrench Set

THIS set gives you the best balanced selection of matched units you could possibly demand in a general purpose socket wrench set. Midget units for ignition and carburetor work; the most popular of the Master units with thin, straight-walled hexagon sockets for easy work in close places; and a powerful Heavy Duty Sliding Bar, Extension Bar and eight most needed Heavy Duty Hexagon Sockets for those larger, tougher jobs.



Socket Range $\frac{1}{4}''$ to $1\frac{5}{8}''$

Including the entire range of hexagon sockets $\frac{1}{4}''$ to $1\frac{5}{8}''$. Fits S.A.E. sizes $\frac{1}{4}''$ to $1\frac{1}{8}''$ thread diameter—U.S.S. nuts $\frac{1}{8}''$ to $1''$ —U.S.S. cap screws $\frac{1}{8}''$ to $1\frac{1}{4}''$. Twenty-eight sockets with every possible handle hook-up—actually several hundred wrench combinations that every good mechanic needs. A long range of matched units that will fill the majority of your socket wrench requirements and point you out as the best equipped mechanic in your shop.

Takes All Jobs from $\frac{1}{4}''$ to $1\frac{5}{8}''$ Inclusive

Special Cabinet for Super Service Socket Wrench Set



SHOWING the No. 100-B Metal Cabinet, especially constructed to hold all units of the No. 475 Set. A place for each tool—makes it easy to check and prevent loss of units. Note that a bottom tray provides space for the Heavy Duty Ratchet Head.

Heavy Duty Ratchet Head Optional



Many mechanics working on trucks, etc., will find the Heavy Duty Reversible Ratchet Head a most valuable addition to this set.

Locked on the end of the Sliding Tee Bar it is both a powerful and efficient wrench. See description on page 22.
L-72-Y Heavy Duty Ratchet Head. Ea. \$5.85

Set Contains 38 Units

No. 475—Super Service Socket Wrench Set, Tools only	\$32.20
No. 475—with Cabinet	35.95
No. 475-Y Set complete with Heavy Duty Ratchet Head. Tools only	\$38.05
No. 475-Y—with Cabinet	41.80
No. B-100 Special Metal Cabinet	5.00

Accommodates No. 80 Ferret Set

To the mechanic who wishes a 100% efficient socket wrench kit we suggest the addition of the No. 80 Ferret Set, described on page 4. Provisions are made for carrying this set as shown.



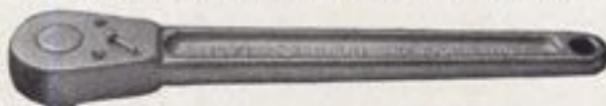
The Complete Tool Kit Contains a Wrench for Every Purpose

Master Handles

1/2" Square Drive

EVERY Snap-On Master Handle fits every Master Socket and Attachment. Socket receiving ends are 1/2" square. A spring-backed friction ball, recessed into the shank, grips and holds the socket firmly, yet permits interchanging sockets quickly and easily.

Reversible Ratchet Wrench



THE convenience of this improved Ratchet Wrench is something that must be experienced to be properly appreciated. No stopping to change sockets from one side to the other—no push through plug to bother with and hinder your work. One quick finger movement and action is instantly reversed.

Stronger Mechanism of New Improved Design

The new Snap-on Ratchet Wrench has been designed to stand up under exceptionally heavy service. The reversing mechanism is simple and smooth acting—no delicate pilot springs to get out of adjustment or break. Ratchet will work where only a 20° handle movement is possible. All working parts are accurately machined and finished—the entire tool heat treated with the utmost care. We offer this tool as the strongest Ratchet Wrench of its size ever built.

Stock Number	Square Drive	Head Thickness	Overall Length	Price
71-A	1/2"	3/4"	9 17/32"	\$3.45



Dual Ratchet Wrenches

A MOST convenient and handy wrench for manifold nuts, exhaust flange nuts, body bolts, etc. Ratcheting action works exceptionally free and has no back-lash. Extremely strong construction—polished chrome finish.

Stock No.	Wrench			Overall Length	Price
	Sizes		Thickness		
75	1/2"	9/16"	.406	6 31/32"	\$1.75
76	5/8"	11/16"	.468	7 7/8"	1.95
77	5/8"	3/4"	.468	7 15/16"	1.95

Sliding Tee Handles



COMBINATION Sliding Tee and Offset Handles that can be used directly in combination with the sockets or with other handle and extension hook-ups.

A spring backed ball inside the head snaps into the center groove to make a practical Tee without preventing free action as a sliding bar. The head locks on either end of bar to form a practical offset handle with the head flush with the end of bar.

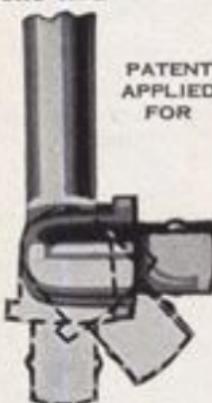
Stock Number	Square Drive	Head Depth	Handle		Price
			Length	Diam.	
S-10	1/2"	1 3/4"	10"	5/8"	\$1.10
S-15	1/2"	1 3/4"	15"	5/8"	1.25

Better Today Than They've Ever Been

Nut Spinner Handles

1/2" Square Drive

THESE Nut Spinner Handles provide great utility. The hinged socket receiving end allows you to clear obstructions and is fitted with a special locking device that holds it firmly in one of five chosen positions or angles from the handle. The handles give plenty of leverage for pulling nuts up tight or breaking them loose.



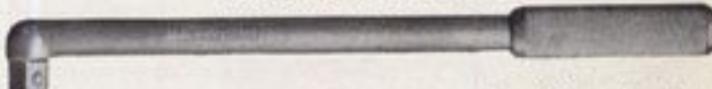
PATENT
APPLIED
FOR



Straighten out the hinge and you have a speeder for spinning them on or off. A hole is drilled through the knurled handle grip for use with a bar, and the handle is broached on the end with a 3/2" square to receive offset, sliding tee or ratchet handles. Bars are not included with these tools. Use these handles to advantage on many jobs and save yourself a lot of hard work.

Stock No.	Square Drive	Head Diam.	Head Depth	Overall Length	Price
10-C	1/2"	1 1/16"	1 9/64"	18"	\$2.45
10-D	1/2"	1 1/16"	1 9/64"	15"	2.45

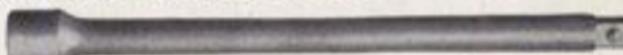
Offset Handle



NOTE the compact design of the drive end. This tool will reach into many close places and simplify many otherwise difficult jobs. Electric furnace alloy steel, 3/8" diameter round stock, providing powerful leverage and great strength to break loose those extra tight nuts and bolts.

Stock No.	Square Drive	Head Diam.	Head Depth	Overall Length	Price
1	1/2"	5/8"	1 5/16"	11 1/4"	\$1.15

Extension Bars for Master Handles



Stock Number	Square Drive	Shank Length	Price
S-2	1/2"	2"	\$0.50
S-6	1/2"	5"	.75
S-12	1/2"	10"	.80
S-20	1/2"	20"	1.30

Swivel Grip Extension Bars



Stock Number	Square Drive	Shank Length	Price
SG-6	1/2"	6"	\$1.00
SG-12	1/2"	12"	1.25

Speed Up Your Nut Turning Operations

Master Handles

1/2" Square Drive

ALL Snap-on wrench handles are made of a special analysis steel, selected for strength and toughness, and are put through a careful heat treating process which gives them the unusual durability and long life for which they are noted.

Speed Tee Handle

PLENTY of leverage for loosening or tightening nuts. Knurled swivel center grip permits easy, rapid spinning. New stop collar holds socket in positive position. 1/2" diameter round shank, 12" long.

Stock No.	Sq. Drive	Shank Lgth.	Tee Width	Price
3	1/2"	12"	7 9/16"	\$1.20

Speeder Handles

THESE speeders are of improved design, with comfortable knurled swivel center grip and end grip—easy and handy to use. New stop collar on socket receiving end holds socket in positive position. 1/2" diameter round stock.

Stock No.	Shank Lgth.	Overall Lgth.	Sweep Radius	Price
K-4	8"	18 3/4"	4 1/8"	\$1.35
K-4B	17"	27 3/4"	4 1/8"	1.75
K-4C	4"	14 3/4"	4 1/8"	1.35

K-3 Speed Tee

K-4 Speeder

The polished Chrome finish applied to all Snap-on Handles imparts a more durable and rust-repelling surface; and a lustrous and more pleasing appearance.

The square drive ends on all Snap-on Handles are machined and finished with the greatest accuracy. Sockets snap on or off quickly and easily—yet they fit so firmly that a Snap-on wrench is as strong as if made in one piece.

Universal Joint for Master Handles



NOTE the slender, compact design. Works freely at nearly a 90° angle. Gives you a flexible type wrench of every required size with regular Master handles. Built for hard usage. Polished chrome finish.

Stock No.	Square Drive	Outside Diameter	Overall Length	Price
8	1/2"	15 15/16"	22 1/32"	\$1.45

Drag Link Adjusters

TIGHTENING slotted nuts on steering gear assemblies, drag links and tie rods is made easy by using these adjuster sockets on a "Master" size handle. They are ideal wherever slotted nuts are used. The A-26 is designed especially for use on Model "A" Ford and Houdaille Shock Absorbers.



Stock No.	Square Drive	Blade		Overall Length	Price
		Width	Thickness		
A-15	1/2"	1 3/16"	.120	11 15/16"	\$0.70
A-17	1/2"	15/16"	.120	11 19/32"	.60
A-26	1/2"	47/64"	.190	11 19/32"	.55

Snap-Ons Lead in Service to the Mechanic

Stud Removers

1/2" Square Drive

A-50—3/16" to 1/2" Capacity

SOMETHING new in stud remover design—operates on a gear principle for gripping—develops a tremendous gripping power which prevents slipping on the job. At the same time it will not lock on the job—quickly and easily releases as soon as pressure is released, in fact the tool can be used with a ratcheting action if desired.

It is small in size and shape and works in pretty close quarters. It has a bulldog grip—is built from a new steel alloy which gives exceptional strength, is compact and simple to use. The principle of construction is new—a real improvement in stud removers.

A-50 Stud Remover—1/2" to 1/2" capacity.	Each...	\$1.85
A-50-A Housing—Each		.95
A-50-B Drive Gear—Each		.50
A-50-C Gripping Rack—Each		.40



A-36—1/2" to 3/4" Capacity

DRIVING shank extends through both sides of housing, providing a bearing each side of gripper and preventing the tool from binding. The knurled gripping wheel is made of special alloy steel which works satisfactorily on soft or hardened studs, and locks on the driving shank by means of a spring backed ball.

A-36 Stud Remover—1/2" to 3/4" capacity.	Each	\$1.95
A-36-A Housing—only.	Each	1.15
A-36-BC Shank & Gripping Wheel Assembly	—Each	.85



Adjuster for Ball Bearing Shackles

Adapted for adjusting spring shackles on jobs equipped with ball bearings, such as Studebaker and others.

S-7501. Each.....\$0.65



Valve Clearance Adjusting Tool

DOES rocker-arm tappet adjusting jobs on all valve in head motors in about one third the usual time, while the motor is hot and running. No other wrenches or tools are necessary. Makes an absolutely accurate adjustment the first time with no checking back necessary. The handiest tool ever invented for this job—saves your time on every job.



Pat. No. 1,544,520

The correct size of adjusting socket is snapped onto the hexagon drive and placed over the lock nut. The Screw Driver Blade is engaged in the screw slot and the adjustment made by the use of the hand grip. One quick movement of the wrench handle locks the nut tight.

V-21-H Valve Clearance Tool.	Each	\$1.75
V-160 1/2" Valve Adj. Socket	Each	.30
V-180 5/8" Valve Adj. Socket	Each	.30
V-200 3/4" Valve Adj. Socket	Each	.30
V-21 Set—One each of the above four units.		2.65



Master Sockets

1/2" Square Drive

THE foundation of the good tool kit is a complete series of matched socket wrenches. From Midget to Extra Heavy Duty, Snap-on offers the widest range of sizes and types of sockets for general as well as specialized service. We can supply the correct type of socket in the required size for any job where a socket wrench can be used. Special Metric and Whitworth sizes are also available.



Electric Furnace High Carbon Steel

SNAP-ON sockets are machined from solid bars of electric furnace high-carbon alloy tool steel noted for toughness and durability, carefully heat treated and accurately broached. The polished Chrome finish imparts a more durable surface and a lustrous appearance. There is no comparison between the lasting quality of a Snap-on and the ordinary make of socket.

Extra Thin, Straight-Walled Hexagon Sockets

RAPIDLY becoming the first choice of a majority of mechanics, these extra thin, straight-walled, double hexagon sockets were originated and first offered to the trade by Snap-on. Designed with a minimum overall diameter consistent with required strength they go after tight nuts in recesses and other close corners where no other wrench will work.



No. SW-1000 Set—10 sizes, Nos. SW-140 to SW-280 \$4.95

No. SW-1200 Set—SW-140 to SW-320 1/2 inclusive 6.25 Patent Nos.

No. SW-1500 Set—All sizes except SW-380 1/2 8.50 1,424,069
1,772,723

Size of Openings in ins.	Double Hex. Straight Wall		Outside Diameter		Overall L'gth	SAE	USS Nuts	USS Cap Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Nuts	Cap Sc.
7/16	SW-140	\$0.45	.625	7/8	1 1/2	1/4	...	1/4	1/4	1/4
15/32	SW-160	.45	.711	7/8	1 1/2	5/16	1/4	5/16	...	5/16
9/16	SW-180	.45	.789	7/8	1 1/2	3/8	...	3/8	5/16	3/8
19/32	SW-190	.45	.828	7/8	1 1/2	...	5/16	...	...	...
5/8	SW-200	.50	.875	7/8	1 1/2	7/16	...	7/16	3/8	7/16
11/16	SW-220	.50	.947	61/64	1 1/2	...	3/8	...	...	...
3/4	SW-240	.50	1.010	1 1/64	1 1/2	1/2	...	1/2	7/16	1/2
25/32	SW-250	.55	1.062	1 1/16	1 1/2	...	7/16	...	...	...
13/16	SW-260	.55	1.125	1 1/8	1 1/2	...	...	9/16	1/2	9/16
7/8	SW-280	.55	1.187	1 3/16	1 1/2	9/16	1/2	5/8	9/16	5/8
15/16	SW-300 1/2	.65	1.250	1 1/4	1 1/2	5/8	...	...	5/8	...
1	SW-320 1/2	.65	1.312	1 5/16	1 1/2	11/16	...	3/4	...	3/4
1 1/16	SW-340 1/2	.70	1.437	1 7/16	1 5/8	3/4	5/8	...	...	...
1 1/8	SW-360 1/2	.75	1.500	1 1/2	1 3/4	...	...	7/8	3/4	7/8
1 5/16	SW-380 1/2	.75	1.625	1 5/8	1 3/4	...	...	...	...	...
1 1/4	SW-400 1/2	.80	1.687	1 11/16	1 7/8	7/8	3/4	1	...	...

Machined from Bars of Electric Furnace Tool Steel

Master Sockets

1/2" Square Drive

THESE are the old reliable standard single broached and standard double broached hexagon sockets. They have proved their quality through years of service in the tool kits of thousands of professional mechanics and on maintenance and production work in industry as a whole. Their only difference is the broaching and we offer both types to meet your individual preference. They are carefully broached to accurate size and are tapered to form as thin a wall as strength and durability will permit. Made from electric furnace alloy steel, carefully heat treated and finished in Chromium plate.



Patent No.
1,424,069

Single Broached Hexagon Sockets

Size of Openings in ins.	Single Hexagon		Outside Diameter		Overall Lgth.	SAE	USS Nuts	USS Cap Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Nuts	Cap Sc.
7/16	140	\$0.35	.609	7/8	1 1/2	1/4	...	1/4	1/4	1/4
1/2	160	.35	.726	7/8	1 1/2	5/16	1/4	5/16	...	5/16
9/16	180	.35	.800	7/8	1 1/2	3/8	...	3/8	5/16	3/8
19/32	190	.35	.834	15/16	1 1/2	...	5/16	...	...	...
5/8	200	.40	.873	1	1 1/2	7/16	...	7/16	3/8	7/16
11/16	220	.40	.952	11/16	1 1/2	...	3/8	...	...	...
3/4	240	.45	1.033	1 1/8	1 1/2	1/2	...	1/2	7/16	1/2
25/32	250	.50	1.100	13/16	1 1/2	...	7/16	...	...	...
13/16	260	.50	1.134	1 1/4	1 1/2	...	...	9/16	1/2	9/16
7/8	280	.50	1.225	15/16	1 1/2	9/16	1/2	5/8	9/16	5/8

Double Broached Hexagon Sockets

Size of Openings in ins.	Double Hexagon		Outside Diameter		Overall Lgth.	SAE	USS Nuts	USS Cap Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Nuts	Cap Sc.
7/16	DH-140	\$0.35	.609	7/8	1 1/2	1/4	...	1/4	1/4	1/4
1/2	DH-160	.35	.726	7/8	1 1/2	5/16	1/4	5/16	...	5/16
9/16	DH-180	.35	.800	7/8	1 1/2	3/8	...	3/8	5/16	3/8
19/32	DH-190	.35	.834	15/16	1 1/2	...	5/16	...	...	...
5/8	DH-200	.40	.873	1	1 1/2	7/16	...	7/16	3/8	7/16
11/16	DH-220	.40	.952	11/16	1 1/2	...	3/8	...	...	...
3/4	DH-240	.45	1.033	1 1/8	1 1/2	1/2	...	1/2	7/16	1/2
25/32	DH-250	.50	1.100	13/16	1 1/2	...	7/16	...	...	...
13/16	DH-260	.50	1.134	1 1/4	1 1/2	...	...	9/16	1/2	9/16
7/8	DH-280	.50	1.225	15/16	1 1/2	9/16	1/2	5/8	9/16	5/8
15/16	DH-300	.55	1.303	17/16	1 1/2	5/8	...	...	...	...
21/32	DH-310	.55	1.351	17/16	1 1/2	...	9/16	...	...	...
1	DH-320	.55	1.398	1 1/2	1 1/2	11/16	...	3/4	...	3/4

Snap-On Sockets Are Carefully Broached to Accurate Sizes

Look for the name **Snap-on** on handles and sockets

Reg. U. S. Pat. Off.

Master Sockets

1/2" Square Drive



Patent No. 1,424,069

Extra Deep Hexagon Sockets

Patent No. 1,424,069

Size of Openings in ins.	Extra Deep Double Hex.		Outside Diameter		Over-all L'gth	SAE	USS Nuts	USS Cap Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Nuts	Cap Sc.
1/2	S-160	\$0.70	.731	7/8	3 1/4	5/16	1/4	5/16	...	5/16
9/16	S-180	.70	.800	7/8	3 1/4	3/8	...	3/8	5/16	3/8
5/8	S-200	.80	.875	7/8	3 1/4	7/16	...	7/16	3/8	7/16
11/16	S-220	.80	.937	15/16	3 1/4	...	3/8	...	...	...
3/4	S-240	.80	1.062	1 1/16	3 1/4	1/2	...	1/2	7/16	1/2
23/32	S-250	.85	1.062	1 1/16	3 1/4	...	7/16	...	...	...
15/16	S-260	.85	1.062	1 1/16	3 1/4	...	...	9/16	1/2	9/16
7/8	S-280	.90	1.187	1 3/16	3 1/2	9/16	1/2	5/8	9/16	5/8
15/16	S-300 1/2	1.05	1.250	1 1/4	3 1/2	5/8	...	...	5/8	...
1	S-320 1/2	1.10	1.312	1 5/16	3 1/2	11/16	...	3/4	...	3/4
1 1/16	S-340 1/2	1.15	1.437	1 7/16	3 1/2	3/4	5/8	...	...	...
1 1/8	S-360 1/2	1.15	1.500	1 1/2	3 1/2	...	...	7/8	3/4	7/8

Flexible Hexagon Sockets

Size of Openings in ins.	Flexible Hex. Sockets		Outside Diameter		Over-all L'gth	SAE	USS Nuts	USS Cap Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Nuts	Cap Sc.
1/2	16	\$1.40	.722	7/8	2 1/4	5/16	1/4	5/16	...	5/16
9/16	18	1.40	.783	7/8	2 5/16	3/8	...	3/8	5/16	3/8
5/8	20	1.45	.875	7/8	2 5/16	7/16	...	7/16	3/8	7/16
11/16	22	1.45	.937	15/16	2 3/8	...	3/8	...	...	...
3/4	24	1.50	1.010	1 1/64	2 1/2	1/2	...	1/2	7/16	1/2

Double Broached Square Sockets

Size of Openings in ins.	Double Sq. Sockets		Outside Diameter		Over-all L'gth	USS Sq. Hd. Cap Sc.	USS Sq. Hd. Set Sc.	USS Sq. Nuts	American Standard	
	Stock No.	Price	Socket End	Drive End					Sq. Nuts	Sq. Cap Sc.
5/8	412	\$0.35	.671	7/8	1 3/8	...	1/4	3/8	...	...
7/16	414	.35	.792	1 5/16	1 3/8	...	5/16	7/16	1/4	1/4
1/2	416	.40	.875	15/16	1 3/8	1/4	3/8	1/2	...	5/16
9/16	418	.45	1.006	1 1/8	1 3/8	...	7/16	9/16	5/16	3/8
5/8	420	.45	1.062	1 1/8	1 3/8	...	1/2	5/8	3/8	7/16
11/16	422	.50	1.156	1 1/4	1 3/8	3/8	9/16	...	...	...
3/4	424	.50	1.250	1 5/16	1 1/2	...	5/8	3/4	7/16	1/2
15/16	426	.50	1.375	1 7/16	1 5/8	...	...	...	1/2	9/16
7/8	428	.60	1.503	1 9/16	1 5/8	1/2	3/4	7/8	9/16	5/8
1	432	.65	1.688	1 3/4	1 3/4	...	1	...	...	3/4

Snap-On Offers the Widest Range of Socket Sizes

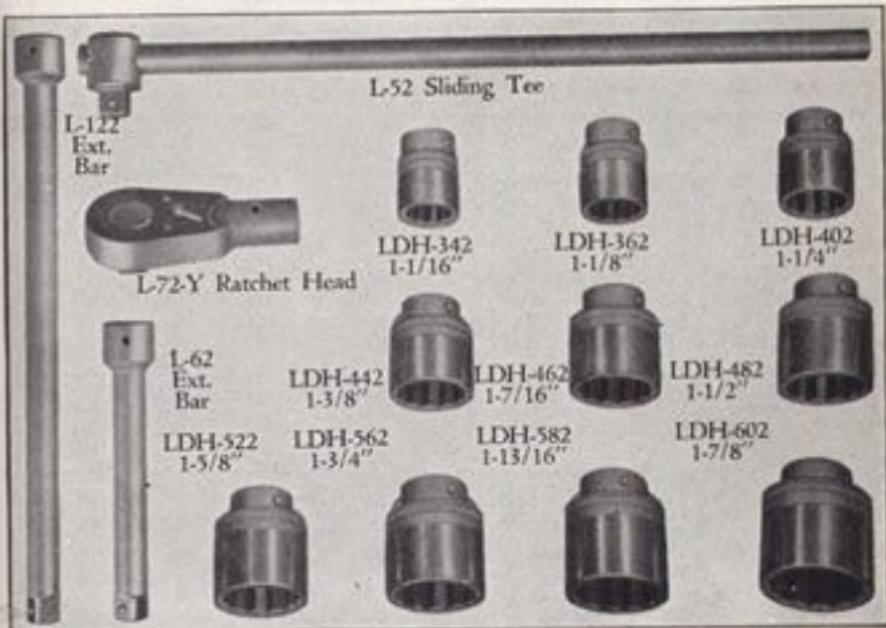
Heavy Duty Loxocket Sets

3/4" Square Drive

For the Larger Nuts and Bolts

SNAP-ON offers you the finest heavy duty line ever developed. Lighter Weight, Better Steel, Safety and Convenience of a Thumb Pressure Lock and all round higher quality. Heavy Duty Loxockets cannot accidentally come apart. Slip them on and they automatically lock on—to release them simply press the Thumb Button. Simple—Convenient—SAFE. They can also be used with other $\frac{3}{4}$ " square drive units.

These units are built to stand up to the toughest work in truck and bus shops and in all industry where the larger sizes of nuts and bolts have to be serviced. They are the last word in heavy duty units and the owner of this fine set will have good cause to feel proud of his equipment.



No. 215 Heavy Duty Set containing all above tools. Tools only..... \$27.35

No. 205 Heavy Duty Set, contains Sliding Bar, two Ext. Bars and eight sockets LDH-342, LDH-362, LDH-402, LDH-442, LDH-462, LDH-482, LDH-522, and LDH-562. Tools only..... \$16.40

NOTE: The above sets can be furnished with single hexagon sockets if desired. See full socket range on pages 23 and 24.

Case for Heavy Duty Sets



DESIGNED to hold the Heavy Duty Sets listed above and providing room for additional sockets, adaptors or other units. Strongly built from heavy gauge sheet steel and finished in grey enamel. Close spot welded construction. Strong metal carrying handle, hasp for locking and two suitcase style catches. Lid fitted with three good hinges. Size 24" long, 4 $\frac{1}{2}$ " wide, 3 $\frac{1}{8}$ " deep, weight 8 $\frac{1}{2}$ lbs.

No. 23-B Metal Case..... Each \$2.95

The Snap-On Name Is Quality Assurance

Heavy Duty Handles

$\frac{3}{4}$ " Square Drive

Ratchet—Detachable Type

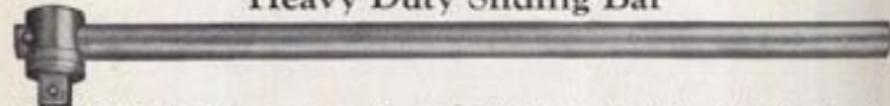
POWERFUL leverage to break loose the tightest of those larger nuts and bolts. Efficient, smooth working ratcheting action that speeds your work. Rugged construction to stand the most strenuous heavy duty work in general auto, bus, and truck repair shops, etc. Built into this tool is every conceivable improvement of design and construction, making it the most outstanding $\frac{3}{4}$ " drive heavy duty ratchet ever offered the trade. The head is machined from a solid forging reinforced to give maximum strength. All working parts are the finest electric furnace alloy steel obtainable, accurately machined and finished. Reverse action is obtained by moving a handy trigger. Overall length assembled is $24\frac{1}{2}$ ".



Pat. No. 1,854,513

Complete Tool			Ratchet Head Only				
Stock No.	Overall Length	Price	Stock No.	Square Drive	Head Length	Head Th'kness	Price
L-72	$24\frac{1}{2}$ "	\$7.35	L-72-Y	$\frac{3}{4}$ "	$5\frac{3}{4}$ "	1"	\$5.85

Heavy Duty Sliding Bar



THREE Tools in one—a combination sliding bar handle and offset handle, while the attachment of an extension bar converts it to a Tee Handle. The Head can be purchased separately and the one bar used for both sliding bar and ratchet handle. Head is held at any point on the bar by a spring ball device.

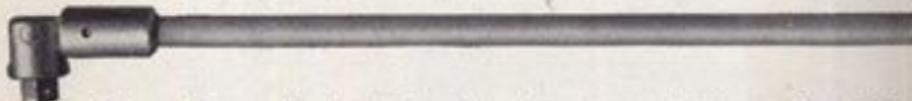
Complete Tool			Sliding Tee Head Only			
Stock No.	Overall Length	Price	Stock No.	Square Drive	Head Depth	Price
L-52	$21\frac{1}{2}$ "	\$2.75	L-52-A	$\frac{3}{4}$ "	$2\frac{5}{16}$ "	\$1.25

Handle for Ratchet or Sliding Bar

This handle is a solid high carbon alloy steel bar and is used for both the Heavy Duty Ratchet and the Heavy Duty Sliding Bar. One end is fitted with a locking device for attaching to ratchet head—easy to lock on or to remove.

Stock Number	Handle Diameter	Handle Length	Price
72-H	$\frac{7}{8}$ "	$21\frac{1}{2}$ "	\$1.50

Heavy Duty Nut Spinner



A new Heavy Duty unit that offers the advantages of a Heavy Duty Nut Spinner Handle, an Offset Handle and an Angle Head Handle all in one. A feature of this tool is that it is used with the L-72-H Handle listed above, giving a maximum tool efficiency at a minimum cost. The entire unit is built to take those large, tough jobs which require extra powerful leverage to break loose or tighten them home.

COMPLETE TOOL			SWIVEL HEAD ONLY				
Stock No.	Overall Length	Price	Stock No.	Square Drive	Head Diam.	Head Depth	Price
L-112	21"	\$3.75	L-112-A	$\frac{3}{4}$ "	$1\frac{1}{16}$ "	$2\frac{5}{16}$ "	\$2.25

There's a Snap-On Socket Wrench for Every Purpose

H. D. Loxocket Units

$\frac{3}{4}$ " Square Drive

Heavy Duty Extension Bars



Stock No.	Square Drive	Shank Diameter	Shank Length	Price
L-32	$\frac{3}{4}$ "	$1\frac{15}{16}$ "	3"	\$1.40
L-62	$\frac{3}{4}$ "	$1\frac{15}{16}$ "	8"	1.65
L-122	$\frac{3}{4}$ "	$1\frac{15}{16}$ "	16"	2.10



Special Socket for Budd Wheels

A $1\frac{11}{16}$ " single broached Square Socket built to stand the gaff on Budd truck wheels. It's a tough job, but this tool has the guts to take it. No standard socket is built to stand up on this job, so don't use anything but the proper tool. No. A-41. Each \$1.55

Heavy Duty Loxockets

$\frac{3}{4}$ " Square Drive

Four types of loxockets in $\frac{3}{4}$ " square drive series provide a complete range of heavy duty wrenches for all hexagon nuts $1\frac{15}{16}$ " to 2" and five popular sizes of squares $\frac{3}{8}$ " to $1\frac{1}{8}$ " inclusive. Six extra deep sockets cover popular sizes of hexagon nuts where long reach or a protruding bolt must be overcome. In industry such as in railroad shops, and in truck and bus shops, etc., these tools are ideal for a large percentage of nut turning operations. The use of Snap-on Socket Wrenches not only speeds up all wrench jobs but puts "Safety First" into the hands of every mechanic. Snap-on Sockets will not turn on a nut of the correct size — they cannot accidentally slip off the handles in use.



Single Broached Hexagon

Size of Openings in ins.	Single Hex. Sockets		Outside Diameter		Overall L'gth	SAE	USS Nuts	USS Cap Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Nuts	Cap Sc.
1 $\frac{1}{16}$	L-342	\$0.75	1.562	$1\frac{13}{32}$	2 $\frac{1}{8}$	$\frac{3}{4}$	$\frac{5}{8}$			
1 $\frac{1}{8}$	L-362	.85	1.625	$1\frac{13}{32}$	2 $\frac{5}{16}$			$\frac{7}{8}$	$\frac{3}{4}$	$\frac{7}{8}$
1 $\frac{3}{16}$	L-382	.85	1.687	$1\frac{13}{32}$	2 $\frac{1}{4}$					
1 $\frac{1}{4}$	L-402	.95	1.781	$1\frac{13}{32}$	2 $\frac{1}{4}$	$\frac{7}{8}$	$\frac{3}{4}$	1		
1 $\frac{5}{16}$	L-422-A	1.05	1.875	1 $\frac{1}{2}$	2 $\frac{5}{16}$				$\frac{7}{8}$	1
1 $\frac{3}{8}$	L-442	1.15	1.937	1 $\frac{1}{2}$	2 $\frac{5}{16}$					
1 $\frac{7}{16}$	L-462	1.20	2.032	1 $\frac{1}{2}$	2 $\frac{3}{8}$	1	$\frac{7}{8}$			
1 $\frac{1}{2}$	L-482	1.25	2.093	1 $\frac{1}{2}$	2 $\frac{1}{2}$				1 $\frac{1}{4}$	1 $\frac{1}{8}$
1 $\frac{9}{16}$	L-502	1.40	2.187	1 $\frac{1}{2}$	2 $\frac{5}{8}$					
1 $\frac{5}{8}$	L-522	1.50	2.250	1 $\frac{5}{8}$	2 $\frac{5}{8}$	1 $\frac{1}{8}$	1			
1 $\frac{11}{16}$	L-542	2.20	2.375	1 $\frac{5}{8}$	2 $\frac{3}{4}$					
1 $\frac{3}{4}$	L-562	2.25	2.406	1 $\frac{5}{8}$	2 $\frac{3}{4}$					
1 $\frac{13}{16}$	L-582	2.40	2.500	1 $\frac{3}{4}$	2 $\frac{7}{8}$	1 $\frac{1}{4}$	1 $\frac{1}{8}$			
1 $\frac{7}{8}$	L-602	2.70	2.562	1 $\frac{3}{4}$	3				1 $\frac{1}{4}$	
2	L-642	2.95	2.750	1 $\frac{3}{4}$	3 $\frac{1}{8}$	1 $\frac{3}{8}$	1 $\frac{1}{4}$			

Sockets That Get Those Large Truck and Bus Jobs

Look for the name **Snap-on** on handles and sockets

Reg. U. S. Pat. Off.

Heavy Duty Loxockets

3/4" Square Drive



Double Broached Hexagon

Size of Openings in ins.	Double Hex. Sockets		Outside Diameter		Over-all L'gth	SAE	USS Nuts	USS Cap Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Nuts	Cap Sc.
15/16	LDH-302	\$0.65	1.375	1 13/32	2	5/8	.....	.....	5/8	.....
31/32	LDH-312	.70	1.406	1 13/32	2	.....	11/16	.....	.....	.....
1	LDH-322	.70	1.440	1 13/32	2 1/16	11/16	.....	3/4	.....	3/4
1 1/16	LDH-342	.75	1.562	1 13/32	2 1/8	3/4	5/8	.....	.....	.....
1 1/8	LDH-362	.85	1.625	1 13/32	2 3/16	.....	.....	7/8	3/4	7/8
1 3/16	LDH-382	.85	1.687	1 13/32	2 1/4	.....	.....	.....	.....	.....
1 1/4	LDH-402	.95	1.781	1 13/32	2 1/4	7/8	3/4	1	.....	.....
1 5/16	LDH-422-A	1.05	1.875	1 1/2	2 5/16	.....	.....	1 1/8	7/8	1
1 3/8	LDH-442	1.15	1.937	1 1/2	2 5/16	.....	.....	1 1/8	.....	.....
1 7/16	LDH-462	1.20	2.032	1 1/2	2 3/8	1	7/8	.....	1 1/4	1
1 1/2	LDH-482	1.25	2.093	1 1/2	2 1/2	.....	.....	1 1/4	1	1 1/8
1 9/16	LDH-502	1.40	2.187	1 1/2	2 5/8	.....	.....	.....	.....	.....
1 5/8	LDH-522	1.50	2.250	1 5/8	2 5/8	1 1/8	1	.....	.....	.....
1 11/16	LDH-542	2.20	2.375	1 5/8	2 3/4	.....	.....	.....	1 1/8	1 1/4
1 3/4	LDH-562	2.25	2.406	1 5/8	2 3/4	.....	.....	.....	.....	.....
1 13/16	LDH-582	2.40	2.500	1 3/4	2 7/8	1 1/4	1 1/8	.....	.....	.....
1 7/8	LDH-602	2.70	2.562	1 3/4	3	.....	.....	.....	1 1/4	.....
2	LDH-642	2.95	2.750	1 3/4	3 1/8	1 3/8	1 1/4	1 1/4	.....	.....

Extra Deep Hexagon

Size of Openings in ins.	Extra Deep Hex. Sockets		Outside Diameter		Over-all L'gth	SAE	USS Nuts	USS Cap Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Nuts	Cap Sc.
15/16	LS-302	\$1.20	1.375	1 13/32	3 1/2	5/8	.....	.....	5/8	.....
1	LS-322	1.25	1.440	1 13/32	3 1/2	11/16	.....	3/4	.....	3/4
1 1/16	LS-342	1.30	1.562	1 13/32	3 1/2	3/4	5/8	.....	.....	.....
1 1/8	LS-362	1.35	1.625	1 13/32	3 1/2	.....	.....	7/8	3/4	7/8
1 1/4	LS-402	1.40	1.781	1 13/32	3 1/2	7/8	3/4	1	.....	.....
1 1/16	LS-462	1.65	2.032	1 1/2	3 1/2	1	7/8	.....	.....	.....
1 1/2	LS-482	1.80	2.093	1 1/2	3 1/2	.....	.....	1 1/4	1	1 1/8
1 1/8	LS-522	2.00	2.250	1 5/8	3 1/2	1 1/8	1	.....	.....	.....

Double Broached Square

Size of Openings in ins.	Double Square Sockets		Outside Diameter		Over-all L'gth	USS Sq. Nuts	USS Sq. Hd. Cap Sc.	USS Sq. Head Set Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Sq. Nuts	Sq. Cap Sc.
7/8	L-628	\$0.70	1.625	1 13/32	2 3/16	1/2	3/4	7/8	5/8	5/8
1	L-632	.85	1.813	1 13/32	2 3/16	.....	.....	1	.....	3/4
1 1/16	L-634	1.15	1.938	1 1/2	2 3/16	5/8	.....	.....	.....	.....
1 1/4	L-644	1.50	2.250	1 5/8	2 3/8	3/4	1	1 1/4	.....	.....
1 1/8	L-646	3.20	2.562	1 3/4	3	7/8	.....	.....	.....	.....

A Tough Job?—Then Use a Snap-On Heavy Duty

It is not a genuine Snap-on without the name

Reg. U. S. Pat. Off.

Extra Heavy Duty Set

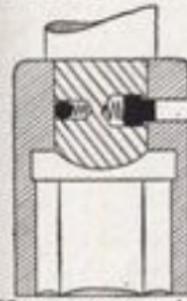
1" Square Drive

STRONGER—heavier—safer! Here is tremendous power and leverage to accomplish more work, easier and with less fatigue. We offer this Extra Heavy Duty Set as the very latest in socket wrench equipment for speeding up the heaviest nut turning work in truck or bus shops—installation and maintenance on marine and mine machinery—all power plant and transmitting machinery—locomotive and railroad shops and truck maintenance, etc.

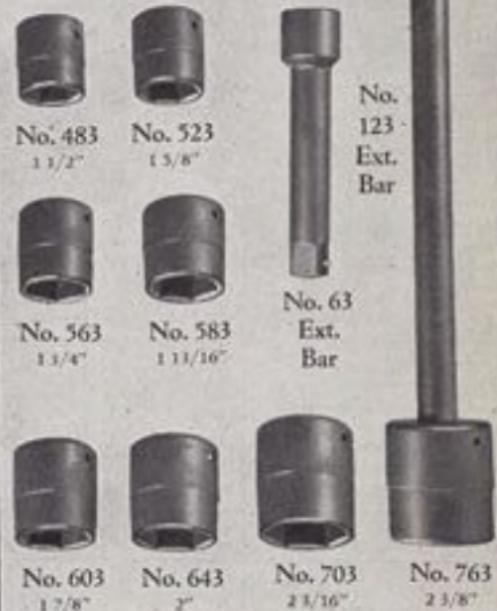


No. 53 Sliding Bar

Safety-First Socket Lock



New type spring backed button fitted into handle shank engages in a hole in side wall of socket. Eliminates all danger of socket becoming detached in use. Also easier to interchange sockets.



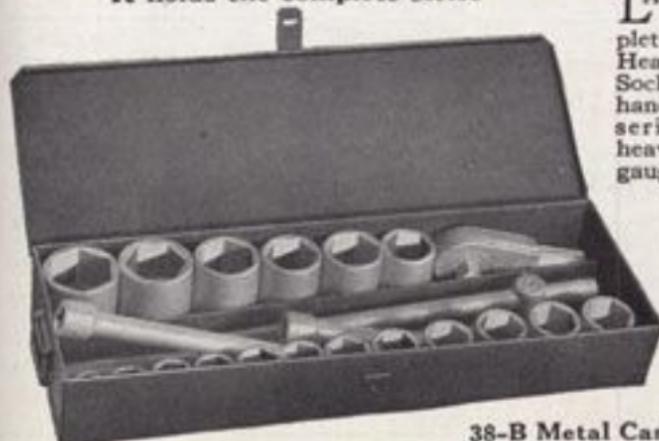
THE eight powerful hexagon sockets fit S.A.E. and U.S.S. nuts and bolts from 1" to 1 3/4" thread diameter. A 24" Sliding Bar and two Extension Bars complete the set and offer a total of sixty-four different Extra Heavy Duty Wrench Combinations that will cut labor costs wherever there are large nuts or bolts to turn and afford maximum safety to workmen.

No. 1803 Extra Heavy Duty Set, Tools only.....\$31.15

See following pages for complete range of units.

Case for Extra Heavy Duty Sets

It holds the complete series



38-B Metal Case each.....\$8.75

LARGE enough to accommodate the complete series of Extra Heavy Duty Hexagon Sockets together with all handles belonging to this series. Exceptionally heavy construction, 16 gauge steel closely spot welded. Lid has four good hinges and a strong padlock hasp. Finished in grey enamel. Equipped with heavy handles at each end. Size: 32 1/2" long, 11" wide, 4 3/4" deep. Weight 25 lbs.

Guaranteed Against Defects in Steel and Workmanship

Look for the name **Snap-on** on handles and sockets

Reg. U. S. Pat. Off.

Handle Equipment

Ratchets—Solid Type



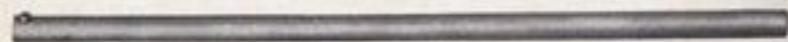
Stock No.	Square Drive	Head Thickness	Overall Length	Described on Page	Price
M-70	$\frac{9}{32}''$	$\frac{1}{4}''$	$3\frac{11}{32}''$	3	\$0.80
F-70A2	$\frac{1}{4}''$	$\frac{19}{32}''$	$6\frac{5}{8}''$	5	2.50
R-7	$\frac{1}{4}''$	$\frac{15}{32}''$	$5\frac{35}{64}''$	5	1.35
F-70-A	$\frac{3}{8}''$	$\frac{33}{64}''$	$6\frac{5}{8}''$	7	2.50
71-A	$\frac{1}{2}''$	$\frac{3}{4}''$	$9\frac{17}{32}''$	14	3.45

Ratchets—Detachable



Stock No.	Complete Tool			Desc'd on Page	Ratchet Head Only			
	Sq. Drive	Overall Length	Price		Stock No.	Head Length	Head Th'knss	Price
L-72	$\frac{3}{4}''$	25"	\$ 7.35	22	72-Y	$5\frac{3}{4}''$	1"	\$ 5.85
73	1"	36"	15.00	26	73-H	$9\frac{3}{8}''$	2"	12.00

Handles for Detachable Ratchets



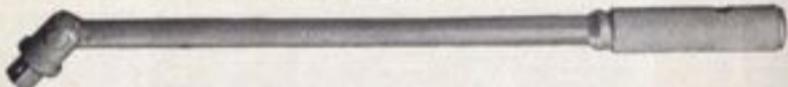
Stock No.	For Head No.	Handle		Described on Page	Price
		Diam.	Length		
72-H	72-N	$\frac{7}{8}''$	$21\frac{1}{2}''$	22"	\$1.50
73-Y	73	$1\frac{1}{4}''$	$31\frac{1}{2}''$	26"	3.00

Dual Ratchet Wrench



Stock No.	Wrench			Overall Length	Described on Page	Price
	Sizes		Thickness			
75	$\frac{1}{2}''$	$\frac{9}{16}''$	.406"	$6\frac{31}{32}''$	14	\$1.75
76	$\frac{5}{8}''$	$1\frac{11}{16}''$	.468"	$7\frac{7}{8}''$	14	1.95
77	$\frac{5}{8}''$	$\frac{3}{4}''$	.468"	$7\frac{15}{16}''$	14	1.95

Nut Spinners



Stock No.	Square Drive	Head		Overall Length	Described on Page	Price
		Depth	Diameter			
F-10	$\frac{3}{8}''$	$1\frac{9}{32}''$	$\frac{3}{4}''$	$8\frac{1}{2}''$	7	\$1.65
10-C	$\frac{1}{2}''$	$1\frac{49}{64}''$	$1\frac{1}{16}''$	18"	15	2.45
10-D	$\frac{1}{2}''$	$1\frac{49}{64}''$	$1\frac{1}{16}''$	15"	15	2.45
L-112	$\frac{3}{4}''$	$2\frac{9}{16}''$	$1\frac{9}{16}''$	$23\frac{11}{32}''$	22	2.95

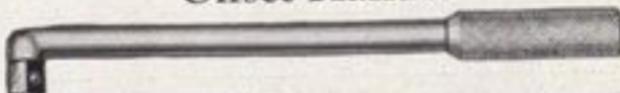
Snap-On Makes All Types of Handle Equipment

It is not a genuine Snap-on without the name

Reg. U. S. Pat. Off.

Handle Equipment

Offset Handle



Stock No.	Square Drive	Head		Overall Length	Described on Page	Price
		Diam.	Depth			
1	1/2"	5/8"	1 5/16"	11 1/4"	15	\$1.15

Tee Handles

Stock No.	Square Drive	Shank		Handle Length	Described on Page	Price
		Diam.	Length			
F3	3/8"	1/2"	12"	6 1/2"	7	\$1.00
F1	3/8"	1/2"	24"	8	7	1.35

Sliding Tees

Stock No.	Square Drive	Handle Diam.	Overall Length	Head Depth	Described on Page	Price
M-5	9/32"	5/16"	4 1/2"	13/16"	3	\$0.45
F-5	3/8"	7/16"	8"	1 5/16"	7	0.75
S-10	1/2"	5/8"	10"	1 3/4"	14	1.10
S-15	1/2"	5/8"	15"	1 3/4"	14	1.25
L-52	3/4"	7/8"	21 1/2"	2 5/16"	22	2.75
53	1"	1 1/8"	30"	3 1/16"	26	4.00

Snap-on Handles

ALL Snap-on Handles are made of the finest steel obtainable, heat treated for maximum strength. The square drives are accurately machined and are "matched units" with their respective socket series. Snap-on Sockets never drop off a Snap-on Handle.



Speeder Handles

Stock No.	Square Drive	Overall Length	Sweep Radius	Described on Page	Price
F-4	3/8"	16 3/8"	3 1/2"	7	\$1.10
F-4B	3/8"	24"	3 1/2"	7	1.25
K-4	1/2"	18 3/4"	4 1/8"	16	1.35
K-4B	1/2"	27 3/4"	4 1/8"	16	1.75
K-4C	1/2"	14 3/4"	4 1/8"	16	1.35

Speed Tee Handles

Stock No.	Square Drive	Shank Length	Tee Width	Described on Page	Price
M-3	9/32"	6"	3 5/8"	3	\$0.75
3	1/2"	12"	7 9/16"	16	1.20

Snap-Ons Cost You Less in the Long Run

Look for the name **Snap-on** on handles and sockets

Reg. U. S. Pat. Off.

Extra Heavy Duty Handles

1" Square Drive

Ratchet and Detachable Handle



36" Leverage

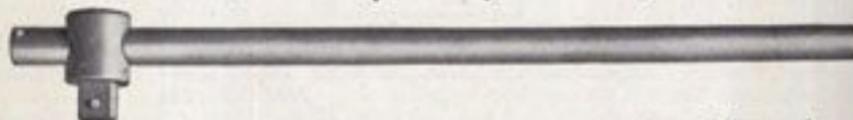
When this Extra Heavy Duty Ratchet is used on those larger nuts or bolts and full pressure put behind its 36" handle leverage there is no nut or bolt, however tight, that can withstand its pull. This handle takes all socket sizes listed on page 27.

Complete Tool

Stock No.	Overall Length	Price
No. 73	36"	\$15.00

Head Only				Handle Only			
Stock No.	Head Lgth.	Head Thick's	Price	Stock No.	Handle Diam.	Handle Lgth.	Price
73-H	9 5/8"	2"	\$12.00	73-Y	1 1/4"	31 1/2"	\$3.00

Extra Heavy Duty Sliding Bar



THIRTY full inches of tremendous leverage when this tool is used as an Offset Handle. Where is the nut that could withstand such a pull? The head can be used in any position on the bar or as a tee wrench in combination with an extension bar.

Stock No.	Square Drive	Head Depth	Handle Diameter	Overall Length	Price
No. 53	1"	3 1/16"	1 1/8"	30"	\$4.00

Extra Heavy Duty Extension Bars



TWO different length Extension Bars that give you valuable adaptability of the Ratchet or Sliding Bar to nuts and bolts down in deep holes or crevices where other tools will not reach. They are one piece units made to stand all the strain the Extra Heavy Duty handles can build up.

Stock No.	Square Drive	Shank Diam.	Shank Length	Price
No. 63	1"	1 1/4"	8"	\$2.75
No. 123	1"	1 1/4"	16"	3.50

Snap-Ons Lead in Service to the Mechanic

*It is not a genuine **Snap-on** without the name*

Reg. U. S. Pat. Off.

Extra Heavy Duty Sockets

1" Square Drive



Single Broached Hexagon

Size of Openings in ins.	Single Hex. Sockets		Outside Diameter		Over-all L'gth	SAE	USS Nuts	USS Cap Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Nuts	Cap Sc.
1 $\frac{7}{16}$	463	\$1.10	1.968	2 $\frac{1}{16}$	2 $\frac{1}{4}$	1	$\frac{7}{8}$	...	...	...
1 $\frac{3}{2}$	483	1.20	2.093	2 $\frac{1}{8}$	2 $\frac{3}{8}$	...	...	1 $\frac{1}{4}$	1	1 $\frac{1}{8}$
1 $\frac{9}{16}$	503	1.35	2.187	2 $\frac{1}{4}$	2 $\frac{1}{2}$	...	...	...	...	...
1 $\frac{5}{8}$	523	1.35	2.187	2 $\frac{1}{4}$	2 $\frac{1}{2}$	1 $\frac{1}{8}$	1	...	...	...
1 $\frac{11}{16}$	543	2.15	2.310	2 $\frac{3}{8}$	2 $\frac{3}{4}$	...	...	...	1 $\frac{1}{8}$	1 $\frac{1}{4}$
1 $\frac{3}{4}$	563	2.15	2.310	2 $\frac{3}{8}$	2 $\frac{3}{4}$	...	...	...	...	...
1 $\frac{13}{16}$	583	2.35	2.468	2 $\frac{9}{16}$	2 $\frac{3}{4}$	1 $\frac{1}{4}$	1 $\frac{1}{8}$	...	...	...
1 $\frac{7}{8}$	603	2.65	2.540	2 $\frac{5}{8}$	2 $\frac{7}{8}$	...	...	...	1 $\frac{1}{4}$	...
2	643	2.70	2.656	2 $\frac{1}{4}$	3	1 $\frac{3}{8}$	1 $\frac{1}{4}$	...	...	...
2 $\frac{1}{8}$	683	3.65	2.781	2 $\frac{7}{8}$	3 $\frac{3}{8}$	...	...	...	...	...
2 $\frac{3}{16}$	703	3.75	2.906	3	3 $\frac{3}{8}$	1 $\frac{1}{2}$	1 $\frac{3}{8}$	...	...	...
2 $\frac{1}{4}$	723	4.00	3.016	3 $\frac{1}{8}$	3 $\frac{3}{8}$	...	...	...	1 $\frac{1}{2}$	...
2 $\frac{3}{8}$	763	4.75	3.156	3 $\frac{1}{4}$	3 $\frac{5}{8}$	...	...	1 $\frac{1}{2}$	...	...
2 $\frac{1}{2}$	803	6.50	3.365	3 $\frac{7}{16}$	3 $\frac{7}{8}$	...	...	...	...	...
2 $\frac{5}{8}$	843	6.75	3.437	3 $\frac{7}{16}$	3 $\frac{7}{8}$	...	...	...	1 $\frac{3}{4}$	...
2 $\frac{3}{4}$	883	7.25	3.625	3 $\frac{3}{4}$	4 $\frac{1}{4}$	...	...	1 $\frac{3}{4}$	...	...
2 $\frac{15}{16}$	943	9.75	4.000	4 $\frac{1}{8}$	4 $\frac{1}{2}$	...	...	1 $\frac{7}{8}$	...	...
3 $\frac{1}{8}$	1003	10.25	4.125	4 $\frac{1}{8}$	4 $\frac{1}{2}$	...	2	...	...	...

Extra Deep Hexagon

Size of Openings in ins.	Extra Deep Hex. Sockets		Outside Diameter		Over-all L'gth	SAE	USS Nuts	USS Cap Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Nuts	Cap Sc.
1 $\frac{1}{4}$	S-403	\$1.50	1.812	1 $\frac{15}{16}$	3 $\frac{1}{2}$	7/8	3/4	1	...	...
1 $\frac{7}{16}$	S-463	1.65	2.062	2 $\frac{1}{16}$	3 $\frac{1}{2}$	1	7/8	...	...	...
1 $\frac{5}{8}$	S-523	1.90	2.250	2 $\frac{1}{4}$	3 $\frac{1}{2}$	1 $\frac{1}{8}$	1	...	...	...

Double Broached Square

Size of Openings in ins.	Double Sq. Sockets		Outside Diameter		Over-all L'gth	USS Sq. Nuts	USS Sq. Hd. Cap Sc.	USS Sq. Hd. Set Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Sq. Nut	Sq. Cap Sc.
1 $\frac{7}{16}$	746	\$3.15	2.437	2 $\frac{5}{8}$	2 $\frac{5}{8}$	7/8	...	...	...	...
1 $\frac{9}{16}$	750	3.40	2.750	2 $\frac{3}{4}$	2 $\frac{3}{4}$	...	...	...	...	...
1 $\frac{5}{8}$	752	3.70	2.750	2 $\frac{3}{4}$	2 $\frac{7}{8}$	1	...	...	...	...
1 $\frac{11}{16}$	754	3.85	2.875	2 $\frac{7}{8}$	3 $\frac{3}{8}$	...	...	...	1 $\frac{1}{8}$	1 $\frac{1}{4}$
1 $\frac{7}{8}$	761	4.60	3.125	3 $\frac{1}{8}$	3 $\frac{3}{8}$	...	...	...	1/4	...

No Stronger Socket Wrenches Have Ever Been Built

Look for the name **Snap-on** on handles and sockets

Reg. U. S. Pat. Off.

Handle Attachments

Extension Bars

Stock No.	Square Drive	Shank Length	Described on Page	Price
M-2	9/32"	2"	3	\$0.40
F-1	3/8"	1 1/2"	7	.35
F-2	3/8"	3"	7	.45
F-6	3/8"	6"	7	.65
F-9	3/8"	8"	7	.70
F-11	3/8"	12"	7	.75
FX-20	3/8"	20"	7	1.00
S-2	1/2"	2"	15	.50
S-6	1/2"	5"	15	.75
S-12	1/2"	10"	15	.80
S-20	1/2"	20"	15	1.30
L-32	3/4"	3"	23	1.40
L-62	3/4"	8"	23	1.65
L-122	3/4"	16"	23	2.10
63	1"	8"	26	2.75
123	1"	16"	26	3.50



Swivel Grip Extension Bars

Stock No.	Square Drive	Shank Length	Described on Page	Price
SG-6	1/2"	6"	15	\$1.00
SG-12	1/2"	12"	15	1.25

Universal Joints

Stock No.	Square Drive	Outside Diameter	Overall Length	Described on Page	Price
MU-8	9/32"	5/8"	1 19/32"	3	\$0.95
F-8	3/8"	3/4"	1 29/32"	7	1.35
8	1/2"	15/16"	2 21/32"	16	1.45

Handle and Socket Adaptors



These units make it possible for you to greatly increase the range of socket sizes which may be used on any Ferret 3/8", Master 1/2", Heavy Duty 3/4", or Extra Heavy Duty 1" Square Drive Handle. They greatly increase the utility of your present handle equipment.



Stock No.	Handle End	Drive End	Overall Length	Outside Diameter	Price
M-1	3/8"	9/32"	1 3/64"	5/8"	\$0.35
HD-1	1/2"	5/8"	1 5/8"	1"	.50
HD-2	5/8"	1/2"	1 21/32"	1 3/16"	.65
A-4	1/2"	3/8"	1 5/16"	7/8"	.45
A-2	3/8"	1/2"	1 3/8"	1 21/32"	.45
LA-12	1/2"	3/4"	1 11/16"	1"	.75
LA-62	3/4"	1/2"	1 11/16"	1 7/16"	1.00
LA-52	3/4"	5/8"	1 11/16"	1 7/16"	1.00
LA-32	5/8"	3/4"	1 11/16"	1 3/16"	.85
LA-42	3/4"	7/8"	1 15/16"	1 7/16"	1.00
LA-82	7/8"	9/4"	2 1/16"	1 11/16"	1.00
HD-3	5/8"	7/8"	1 7/8"	1 1/4"	.90
LA-72	3/4"	1"	2 1/8"	1 7/16"	1.10
A-122	7/8"	1"	2 3/8"	1 3/4"	1.10
HD-10	1"	7/8"	2 1/2"	2"	1.50

Snap-On Leads the Way in Socket Wrench Design

Boxocket Wrenches

Made of Electric Furnace Alloy Tool Steel

TWELVE different and distinct series of box-type wrenches incorporating the very latest improvements and up-to-date ideas in wrench design. They are ideal for manifold, connecting rod and main bearing work, head and base bolts, generator studs, and all types of nut turning where space allows for handle movement. The double hexagon broaching and thin walls permit Boxocket Wrenches to be used where clearance and turning space is extremely limited. They require only half as much space for handle movement as end wrenches to operate on hexagon nuts and afford greater leverage. Boxockets completely circle the nut, catch all six corners and distribute the pulling strain—the strain is equal on all six sides. They are the strongest type of wrenches made, combining a socket wrench grip with an end wrench direct leverage.

Patented
No. 1,424,069

BLUE POINT
BOXOCKET
REG.
U. S. PAT. OFFICE



1. Boxockets handle the tough jobs as well as taking the accessible nuts easier.
2. Boxockets can be used over long threaded bolts or in small clearance space above the bolt.
3. Boxockets cannot slip off the nut under a heavy pull.
4. Double broaching and chamfered edge allow the wrench to slip on easily.
5. Blue-Point Boxuckets are made in a range of sizes and styles to fit all wrench requirements.

Midget Boxocket Wrenches



Size of Openings in Inches	Stock No.	Price	Depth of Head	Overall Length	SAE	USS Nuts	USS Cap Sc.
3/16 and 13/64	XI-1213	\$0.60	9/64	2 13/16	.....	.....	.....
5/32 and 15/64	XI-1415	.60	5/32	3 3/32	.....	.....	.....
1/4 and 9/32	XI-1618	.60	11/64	3 3/8	.....	.....	.....
5/16 and 11/32	XI-2022	.60	3/16	3 3/4	.....	1/8	1/8

A NEW series of four Midget Boxocket Wrenches designed for ignition and carburetor work, radio and all other small nut turning jobs. They are just the ideal units for these small jobs, being made with both ends offset to clear small obstructions and broached accurately to size to fit these tiny nuts perfectly.

The two smallest sizes are single hexagon and the two larger sizes double hexagon.

XI-4—Set containing one each of the above Tools. Tools only \$2.40

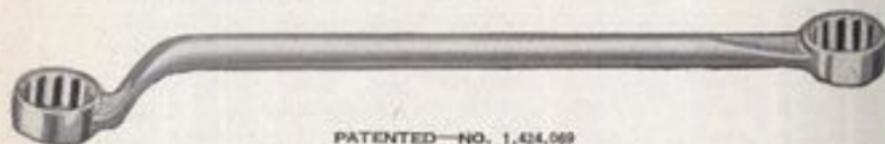
XI-4K—Set (Above set in C-12 Kit Bag) \$2.60



The Strongest Type of Wrench Ever Invented

Offset Boxocket Wrenches

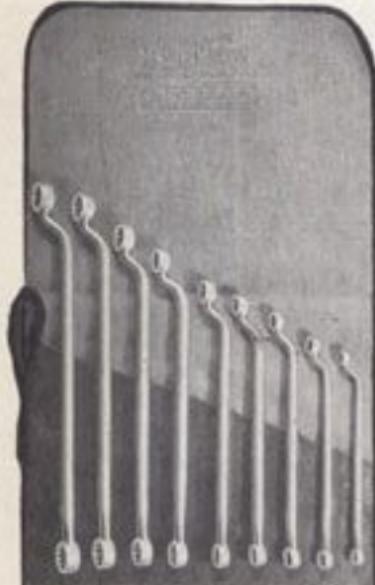
THESE wrenches have the same size opening at each end and, in the standard range of sizes, are the best wrenches for all round work. They are light and at the same time give a long leverage for the heavy pull. Their big advantage is that *they are adaptable to all the work that Boxockets can do.*



PATENTED—NO. 1,434,069

Size of Open- ings in ins.	Stock No.	Price	Depth of Head	Height of Offset	Over- all Length	SAE	USS Nuts	USS Cap Sc.	American Standard	
									Nuts	Cap Sc.
7/16	X-14	\$0.85	5/16	11/16	9 9/32	1/4	...	1/4	1/4	1/4
1/2	X-16	.90	5/16	3/4	9 15/16	5/16	1/4	5/16	...	5/16
9/16	X-18	1.00	11/32	13/16	10 5/8	3/8	...	3/8	5/16	3/8
5/8	X-20	1.05	7/16	7/8	11 1/16	7/16	...	7/16	3/8	7/16
11/16	X-22	1.15	7/16	15/16	12 1/4	...	3/8	3/8	11/16	11/16
3/4	X-24	1.25	15/32	1	13 1/4	1/2	...	1/2	1/2	1/2
13/16	X-26	1.35	1	1	14 1/4	...	...	9/16	1/2	9/16
7/8	X-28	1.35	9/16	1 1/16	15 3/8	9/16	1/2	5/8	9/16	5/8
15/16	X-30	1.45	5/8	1 3/16	16 7/16	5/8	...	5/8	...	5/8

Greater Handle Efficiency



WHERE you need a straight wrench you have it. For example: Behind large manifolds and in the rear of motor blocks. If there are obstructions to clear you have the advantage of the offset end. For example: On cylinder head and brake work and for heavy pulling on connecting rods and main bearings, etc. This gives Blue-Point Offset Boxocket wrenches double the handle efficiency of other box type wrenches.

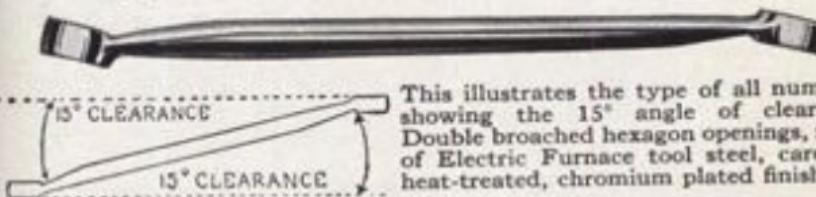
For the mechanic who uses box type wrenches regularly, there is no better set than the X-9 Offset Boxocket set which gives a complete range in sizes from $7/16''$ to $15/16''$.

No. X-9 Set—Consisting of nine Boxocket wrenches X-14 to X-30, shown above. Tools only.....	\$10.35
No. X-9K Set—Above set in No. C-7 leatherette kit.....	10.70
No. X-7 Set—Consisting of seven popular sizes of Boxocket wrenches, Nos. X-14, X-16, X-18, X-20, X-22, X-24 and X-28. Tools only.....	\$ 7.55
No. X-7K Set—Above set in No. C-7 leatherette kit.....	7.90

Buy Sets—Have the Right Tool for Every Job

15° Angle Boxocket Wrenches

STRAIGHT handle Boxocket Wrenches with heads set at a 15° angle. The straight handle allows the wrench to be used in many corners where an offset would be awkward while the 15° angle head provides handle clearance from obstructions together with a long, direct pulling leverage.



This illustrates the type of all numbers, showing the 15° angle of clearance. Double broached hexagon openings, made of Electric Furnace tool steel, carefully heat-treated, chromium plated finish.

Size of Openings in inches	Stock No.	Price	Depth of Head	Over-all Length	SAE	USS Nuts	USS Cap Sc.
7/16 & 1/2	XD-1416	\$0.90	11 1/32	8 7/8	1/4 & 5/16	1/4	1/4 & 5/16
1/2 & 9/16	XD-1618	.95	9 1/8	9 1/4	5/16 & 3/8	1/4	5/16 & 3/8
9/16 & 5/8	XD-1820	1.00	9 1/16	9 5/8	3/8 & 7/16	1/4	3/8 & 7/16
19/32 & 11/16	XD-1922	1.05	10 1/16	10	7/16 & 3/8	1/4	7/16 & 3/8
5/8 & 11/16	XD-2022	1.05	10 1/16	10 3/8	7/16 & 1/2	3/8	7/16
5/8 & 3/4	XD-2024	1.10	15 1/32	10 7/8	7/16 & 1/2	1/2	7/16 & 1/2
11/16 & 3/4	XD-2224	1.20	15 1/32	11 1/8	1/2	3/8	1/2
25/32 & 13/16	XD-2526	1.20	11/2	11 7/8	7/16	1/2	7/16
3/4 & 7/8	XD-2428	1.25	9/16	12 3/8	1/2 & 9/16	1/2	5/8 & 5/8
7/8 & 15/16	XD-2830	1.35	9/16	12 15/16	9/16 & 5/8	1/2	5/8
15/16 & 1	XD-3032	1.70	5/8	13 9/16	5/8 & 11/16	1/2	3/4
15/16 & 1 1/16	XD-3034	1.75	11/16	14 3/16	5/8 & 3/4	5/8	1
1 1/16 & 1 1/8	XD-3436	1.90	11/16	15 1/2	3/4	5/8	1
1 1/16 & 1 1/4	XD-3440	1.95	11/16	16 1/4	3/4 & 7/8	5/8 & 3/4	1
1 1/8 & 1 1/4	XD-3640	2.20	11/16	17	7/8	3/4	7/8 & 1
1 5/16 & 1 3/8	XD-4244	2.50	13/16	17 3/4	1	1 1/8	1

More Wrenches at Less Cost

While these wrenches have many other advantages, it is a fact that you have to buy less of them to get a complete range of sizes. Different size openings on each end make each handle do double duty.

XD Boxocket Sets

XD-6 Set—Consisting of the following six wrenches giving sizes from $7/16$ up to 1 without duplication. Nos. XD-1416, XD-1820, XD-1922, XD-2526, XD-2428 and XD-3032. Tools only..... \$7.10

XD-6K Set—Above tools in No. C-6 leatherette kit..... \$7.40

XD-5 Set—Contains five popular wrench sizes $7/16$ to $3/4$. XD-1416, XD-1820, XD-1922, XD-2526 and XD-2428. Tools only..... \$5.40

XD-5K Set—Above tools in No. C-6 leatherette kit..... \$5.70

XD-SAE Set—The five wrenches in this set give you S. A. E. sizes from $7/16$ to $1\frac{1}{8}$. A mighty useful kit to have at your disposal. XD-1416, XD-1820, XD-2428, XD-3032 and XD-3436. Tools only..... \$6.75

XD-SAEK Set—Above tools in No. C-6 leatherette kit..... \$7.05

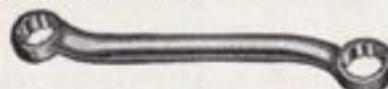


The Blue Point Name Stands for Quality First

Dwarf Boxocket Wrenches

Trade Mark

THIS style of Boxocket gives the mechanic a short sturdy wrench for use in close corner jobs, such as manifolds, starter, generator, water pump, distributor mountings, universal joints, and many other similar jobs. Each end has a different size opening and is offset, as illustrated, to clear obstructions. The most popular and needed sizes are included, and there are plenty of special jobs that each size will do.



Size of Openings in inches	Stock No.	Price	Depth of Head	Over-all Length	SAE	USS Nuts	USS Cap Sc.
3/8 & 7/16	XS-1214	\$0.70	1/4	4 13/16	1/4	...	3/16 & 1/4
5/16 & 1/2	XS-1416	.75	9/32	5 1/4	1/4 & 5/16	1/4	1/4 & 5/16
1/2 & 9/16	XS-1618	.80	5/16	5 1/2	5/16 & 3/8	1/4	5/16 & 3/8
9/16 & 5/8	XS-1820	.85	13/32	5 13/16	3/8 & 7/16	...	5/8 & 7/16
5/8 & 3/4	XS-2024	.95	7/16	6 3/16	7/16 & 1/2	...	7/16 & 1/2
11/16 & 3/4	XS-2224	1.15	15/32	6 3/8	1/2 & 3/8	...	1/2

Dwarf Set in Kit Bag

XS-5 Set

These five wrenches give you the most practical assortment of Dwarf Boxockets with a range of sizes $\frac{3}{8}$ " to $\frac{3}{4}$ ". They will take the majority of jobs on which this type wrench can be used.

XS-5 Set—Contains the following tools:

XS-1214, XS-1416, XS-1618, XS-1820 and XS-2024. Tools only.....\$4.05

XS-5K Set—Above tools in No. C-5 Kit Bag.....\$4.25

XS-4 Set

The four following sizes of Dwarf Boxockets give you a mighty useful outfit of the most used sizes. No wrench set can be of greater practical use for its size. XS-1214, XS-1618, XS-1820 and XS-2024.

XS-4 Set—Wrenches only.....\$3.30

XS-4K Set—Above set in No. C-5 Kit Bag.....\$3.50

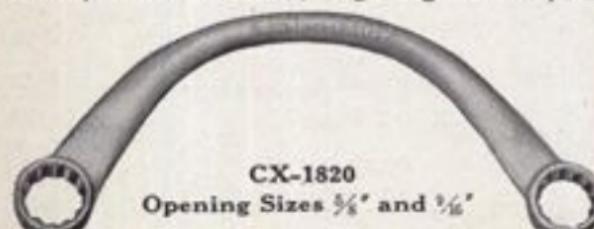
Note: The No. C-5 Kit Bag will accommodate all size Dwarf Boxockets listed above.



Half Moon Boxocket Wrench

This special design Boxocket Wrench is an ideal tool for use in getting at those hidden, around the corner, tough-to-get-at nuts, such as starter nuts, manifold nuts, exhaust flange union nuts, carburet or flange nuts, etc. Contains those two popular sizes, $\frac{5}{8}$ " and $\frac{3}{4}$ ".

CX-1820 Half Moon Boxocket. Each..\$1.15



CX-1820
Opening Sizes $\frac{5}{8}$ " and $\frac{3}{4}$ "

Boxocket Wrenches Are Safety-First Tools

Short Handle Combination Open End Boxockets

Size of Openings, Both Ends	Stock No.	Price	Head Thickness		Overall Length	SAE	USS Nuts	USS Cap Sc.
			Box End	Open End				
7/16	OEX-140	\$0.75	19/64	15/64	5 7/16	1/4	...	1/4
1/2	OEX-160	.80	5/16	1/4	5 23/32	5/16	1/4	5/16
9/16	OEX-180	.85	21/64	17/64	6	3/8	...	3/8
5/8	OEX-200	.90	11/32	9/32	6 5/16	7/16	...	7/16
11/16	OEX-220	1.05	23/64	19/64	6 19/32	...	3/8	...

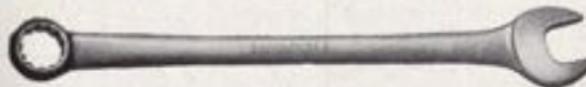


DESIGNED with a Boxocket opening at one end and an Open End of the same size at the other, these new type wrenches offer decided advantages over the single type wrench. The Boxocket end comes in mighty useful for breaking tight nuts loose or pulling them tight and the Open End for fast turning work. This short handled series cannot be equaled for close quarter work, and the double duty handles give you a Boxocket set and an Open End set for the price of one set.

OEX-50 Set—Containing one each of the above five units. Tools only \$4.35
 OEX-50K Set—Above set in C-14 Kit Bag 4.60

Long Handle Combinations

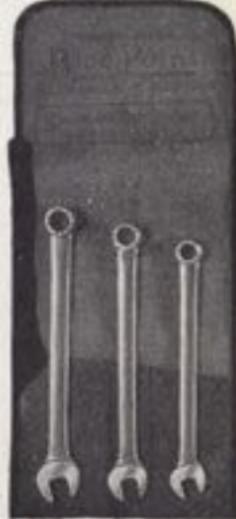
Size of Openings, Both Ends	Stock No.	Price	Head Thickness		Overall Length	SAE	USS Nuts	USS Cap Sc.
			Box End	Open End				
1/2	OEX-16	\$0.85	5/16	1/4	7 5/8	5/16	1/4	5/16
9/16	OEX-18	.90	21/64	17/64	8 5/32	3/8	...	3/8
5/8	OEX-20	1.00	11/32	9/32	8 11/16	7/16	...	7/16



THE three most generally used sizes of nuts on modern automobiles can be serviced with this set of Long Handled Combination Boxocket and Open End Wrenches. They have the advantage of the dual type of opening and longer handle leverage for pulling these nuts up tight. The Boxocket end on both long and short handled combination wrenches is set at a 15° angle from the handle in order to give handle and finger clearance from obstructions and yet give a direct handle leverage on tough jobs.

OEX-3 Set—The above three tools \$2.75

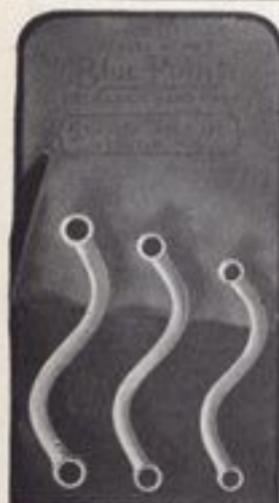
OEX-3K Set—Above set in C-14 Kit Bag 3.00



Curved Boxocket Wrenches

SOMETHING new in Boxocket Wrench design. The heads are set at a 15° angle from the handle to provide handle and finger clearance space, while the curve is set at a 30° angle to give ample room for working around obstructions. Each Wrench provides four different working positions for one size opening. Just the tool for all hidden, hard-to-get-at nuts.

Size of Openings in Inches	Stock No.	Price	Depth of Head	Overall Length	SAE	USS Nuts	USS Cap. Sc.
1 1/2"	XA-16	\$1.00	11 1/2	7	5/16	1/4	1/8
5/8"	XA-18	1.15	3 1/8	7 3/8	3/8	5/16	3/8
7/8"	XA-20	1.25	10 1/2	8 1/2	1/4	.....	7/8



We offer these wrenches in three sizes to take the three most generally used sizes of nuts and bolts. You can get at a majority of those around-the-corner nuts that are difficult to reach with a standard type tool. Very efficient on starters, manifolds, carburetor and exhaust flange nuts, etc.

XA-3 Set—Consisting of the above three tools \$3.40

XA-3K Set—The above set in C-15 Kit Bag. 3.65

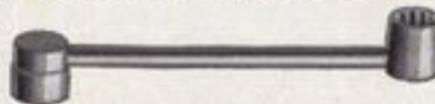
Ratcheting Boxocket Wrenches



CONVENIENT and handy for use on manifold nuts, exhaust flange nuts, body bolts, and many other jobs requiring these sizes. Very free working ratchet action and strong construction.

Size of Openings in Inches	Stock No.	Price	Wrench Thickness	Overall Length	SAE	USS Nuts	USS Cap. Sc.
1 1/2 & 5/8"	75	\$1.75	.406	6 11/16	5/16 & 5/8	1/4	1/8 & 5/8
5/8 & 11/16"	76	1.95	.468	7 7/8	7/16	5/8	7/16
7/8 & 3/4"	77	1.95	.468	7 15/16	7/16 & 1 1/2	.....	7/16 & 1 1/2

Hammer Head Boxocket



HANDEST little wrench made for numerous tight places around motors—starters, carburetors, generators, distributors, manifolds, filters, strainers, air cleaners, timing gear covers, etc. Also brake and battery work. Handle is insulated for protection of tool in case of contact with live switch or wire.

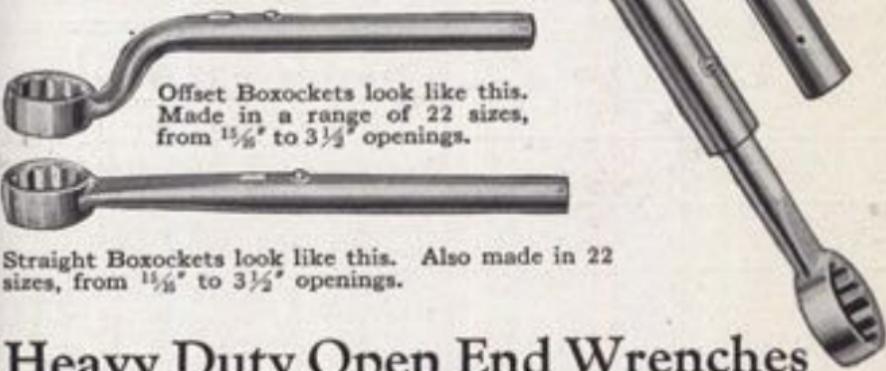
F-1820—5/16" and 5/8". Each.....\$0.95

Look for the Name "Blue-Point" on the Handle

Heavy Duty Boxockets

By a special locking device the wrench heads are easily interchanged on the handles. Over-all lengths range from 23" to 61". Both straight and offset styles are furnished in the same range of sizes for easy work in clearing obstructions. Forged from high carbon Chrome Vanadium tool steel, carefully heat-treated to insure great strength. Rust-proof cadmium plated finish. Meet big demand as standard stock tools and also take the place of numerous costly hand-made special wrenches.

LONGER leverage—lighter—stronger—easier to use in tight places than any other wrenches made for heavy nut turning operations. Safety-first tools—once on the nut they cannot slip off—spread—or turn on the nut. Forty-four Boxocket wrench heads, with short round shanks, are made to fit on tubular handles of different lengths.



Offset Boxockets look like this. Made in a range of 22 sizes, from $1\frac{5}{8}$ " to $3\frac{1}{2}$ " openings.

Straight Boxockets look like this. Also made in 22 sizes, from $1\frac{5}{8}$ " to $3\frac{1}{2}$ " openings.

Heavy Duty Open End Wrenches

For Use with Tubular Handles

Open End Wrenches of this type have been found of great use on many heavy nut turning operations and the extreme leverage provided by the tubular handles gives you the advantage of an Open End Wrench with an interchangeable handle feature never before offered the trade.



Offset Open End Wrenches, with short, round shanks, are furnished in a range of 11 sizes, from $1\frac{1}{4}$ " to $1\frac{1}{8}$ " openings.

Straight Open End Wrenches with short, round shanks, also furnished in a range of 11 sizes, from $1\frac{1}{4}$ " to $1\frac{1}{8}$ " openings.

Your Mail Orders Will Receive Prompt Attention

Heavy Duty Boxocket Sizes

Size of Opening	Head Thickness	Shank Diam.	For Handle No.	Straight Boxockets		Offset Boxockets	
				No.	Price	No.	Price
1 15/16"	5/8"	5/8"	15	130	\$1.50	230	\$1.75
1"	5/8"	5/8"	15	132	1.50	232	1.75
1 1/16"	11/16"	11/16"	18	134	1.75	234	2.00
1 1/8"	11/16"	11/16"	18	136	1.75	236	2.00
1 3/16"	11/16"	11/16"	18	140	1.75	240	2.00
1 5/16"	11/16"	11/16"	18	142	2.25	242	2.50
1 3/8"	13/16"	7/8"	24	144	2.75	244	3.35
1 7/16"	13/16"	7/8"	24	146	2.75	246	3.35
1 1/2"	7/8"	7/8"	24	148	3.00	248	3.60
1 9/16"	7/8"	7/8"	24	150	3.25	250	3.60
1 5/16"	1"	1"	30	152	3.45	252	4.35
1 9/16"	1"	1"	30	156	3.65	256	4.55
1 13/16"	1 1/16"	1"	30	158	3.75	258	4.65
1 7/8"	1 1/16"	1"	30	160	4.50	260	5.40
2"	1 1/8"	1"	30	164	4.50	264	5.40
2 5/16"	1 1/8"	1"	30	170	4.90	270	5.80
2 3/4"	1 1/8"	1"	30	172	4.90	272	5.80
2 3/16"	1 1/4"	1 1/4"	36	176	6.25	276	7.25
2 1/2"	1 1/4"	1 1/4"	36	182	6.50	282	7.50
2 5/8"	1 1/4"	1 1/4"	36	188	7.00	288	8.25
2 13/16"	1 1/4"	1 1/4"	36	194	7.75	294	8.75
3 1/8"	1 1/4"	1 1/4"	36	1100	8.00	2100	9.00
3 3/2"	1 5/16"	1 3/4"	42	XHD-1112	9.75	XHD-2112	11.75

Heavy Duty End Wrench Sizes

Size of Opening	Head Thickness	Shank Diam.	For Handle No.	Straight Wrenches		Offset Wrenches	
				No.	Price	No.	Price
1 3/4"	11/16"	11/16"	18	OE-140	\$2.65	OE-240	\$3.00
1 15/16"	11/16"	11/16"	18	OE-142	2.65	OE-242	3.00
1 3/8"	3/4"	7/8"	24	OE-144	3.95	OE-244	4.40
1 7/16"	3/4"	7/8"	24	OE-146	3.95	OE-246	4.40
1 3/16"	7/8"	1"	30	OE-148	4.20	OE-248	4.80
1 9/16"	7/8"	1"	30	OE-150	4.20	OE-250	4.80
1 5/8"	15/16"	1"	30	OE-152	4.40	OE-252	5.00
1 11/16"	15/16"	1"	30	OE-154	4.40	OE-254	5.00
1 3/4"	13/16"	1"	30	OE-156	4.40	OE-256	5.00
1 13/16"	13/16"	1"	30	OE-158	4.85	OE-258	5.50
1 7/8"	13/16"	1"	30	OE-160	4.85	OE-260	5.50

NOTE: Where special bends or offsets are required in either Boxocket or End Wrenches, we can furnish them at slight additional cost.

Tubular Handles For Use on All Above Wrenches

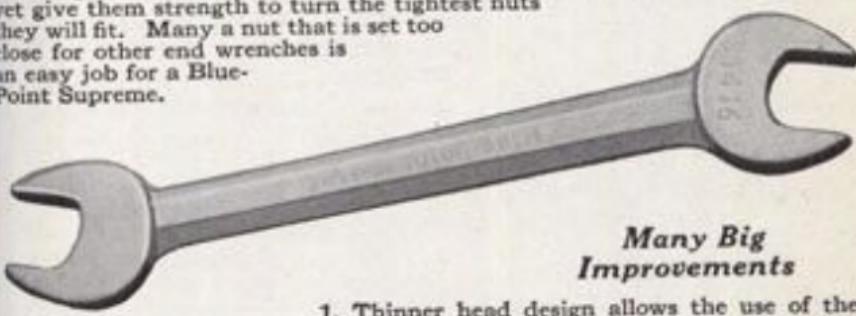
Handle No.	Handle Length	Length Overall Assembled	Outside Diameter	Inside Diameter	Price Each
15	15"	23"	13/16"	5/8"	\$1.50
18	18"	24"	1 1/16"	11/16"	1.75
24	24"	35"	1 1/16"	1 1/8"	2.75
30	30"	41"	1 1/4"	1"	3.75
36	36"	52 1/2"	1 1/4"	1 1/8"	5.00
42	42"	61"	1 1/4"	1 1/8"	6.00

Tools That Keep the Wheels of Industry Moving

"Blue-Point Supreme" Open End Wrenches

An Outstanding Wrench Development

BLUE Point Supreme Open End Wrenches have been made possible by the development of a new alloy, high carbon, electric furnace steel, possessing qualities of strength, toughness, and fatigue resistance, under the strain of hard usage, that is not obtainable in any other wrenches of comparable design and weight. The use of this new steel has enabled us to build these wrenches much lighter, with thinner heads and narrower jaws, and yet give them strength to turn the tightest nuts they will fit. Many a nut that is set too close for other end wrenches is an easy job for a Blue-Point Supreme.



Many Big Improvements

1. Thinner head design allows the use of these wrenches in closer places.
2. Narrower jaws permit use where space is limited for turning action.
3. The new steel used gives greater strength for turning those tight nuts or bolts.
4. Lighter weight and balanced design give a comfortable feeling in the hand and the sanded finish edges a non-slip grip.
5. The modern design and chromium plating gives a distinctive appearance and provides a durable rust proof finish.
6. The eleven sizes most commonly needed on general work are all provided on these eight "Supreme" wrenches.

Size of Openings in Inches	Stock No.	Price	Head Thickness	Overall Length	SAE	USS Nuts	USS Cap Sc.
3/8 & 7/16	S-1214	\$0.55	.190	5 1/8	1/4	... 1/4	3/16 & 1/4
7/16 & 1/2	S-1416	.60	.210	5 11/16	1/4 & 5/16	1/4	1/4 & 5/16
1/2 & 9/16	S-1618	.70	.225	6 3/16	5/16 & 3/8	1/4	5/16 & 3/8
9/16 & 5/8	S-1820	.90	.270	6 3/4	3/8 & 7/16	... 1/4	3/8 & 7/16
19/32 & 11/16	S-1922	1.00	.290	7 1/4	5/16 & 3/8	... 1/4	... 1/4
5/8 & 3/4	S-2024	1.00	.310	7 13/16	7/16 & 1/2	... 1/2	7/16 & 1/2
25/32 & 15/16	S-2526	1.35	.330	8 7/16	... 1/2	1/2	1/2
3/4 & 7/8	S-2428	1.35	.360	9	1/2 & 9/16	1/2	1/2 & 5/8

B. P. Supreme Open End Set

Among all wrenches the open end is just about the most basic tool of them all, and it is only practical to buy them in complete sets. The Blue-Point Supreme set contains all the units listed above and equips you with a complete series of sizes from $\frac{3}{8}$ " to $\frac{7}{8}$ ".

BPS-8 Set—All above tools..... \$7.45

BPS-8K Set—Above Set in No. C-2 Kit Bag... \$7.75



The Latest Achievement in End Wrench Quality

“Blue-Point Supreme” Tappet Wrenches

THE most outstanding development in recent years in tappet wrench design and construction. Jaws are much narrower and heads thinner, and yet these tools are stronger than ever before. Note in the illustration the small, pear shaped heads which get into those close quarters around the tappet adjusting

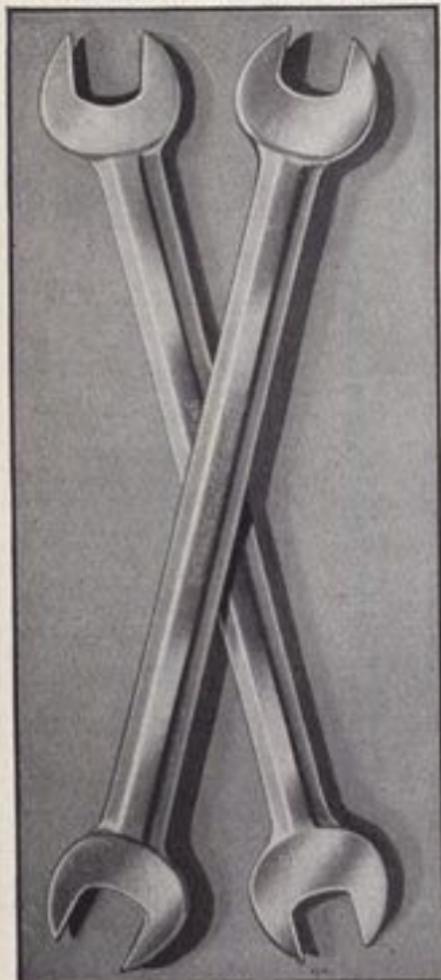
screws, tappets and lock nuts. Also the long, slender handles of modern design which allow the mechanic to work clear of the hot motor and provide easy operation. The angle on one end enables the use of these tools in otherwise inaccessible places.

Many Outstanding Improvements

1. The secret of these new units is the steel used in their construction. Briefly, it is a special high carbon, electric furnace alloy steel developed expressly for this purpose and possessing degrees of strength not obtainable in any other wrench of similar size and design.
2. Thinner Head design, needed on modern engines.
3. Narrower Jaws for easier work in close places.
4. Lighter Weight and Better Balance. Usually two wrenches are worked like scissors in one hand and a third is used in the other hand, and these features provide easier operation.
5. Modernized design with Lustrous Chrome Plate finish. There isn't a wrench on the market that can compare with them for utility or appearance.

Designed in Pairs

These units are made in pairs with two different sizes on each wrench and a straight and offset end in each size. This makes it very convenient to locate the size and style of wrench required for each job and makes two openings of the same size available at any time. They are the most practical, strongest, and best looking Wrenches ever offered for tappet work.



Stock Number	Size of Opening		Thickness of Head	Overall Length	Price
	Straight End	Angle End			
ST-1416	7/16"	1/2"	.156"	7 15/16"	\$0.85
ST-1614	1/2"	7/16"			.85
ST-1618	1/2"	9/16"	.170"	8 1/4"	.85
ST-1816	9/16"	1/2"			.85
ST-1820	9/16"	5/8"	.180"	8 1/8"	.85
ST-2018	5/8"	9/16"			.85
ST-2022	5/8"	11/16"	.186"	8 1/4"	.95
ST-2220	11/16"	5/8"			.95
ST-2428	3/4"	7/8"	.200"	8 1/2"	1.05
ST-2824	7/8"	3/4"			1.05

Modern Design and Old Fashioned Quality Combined

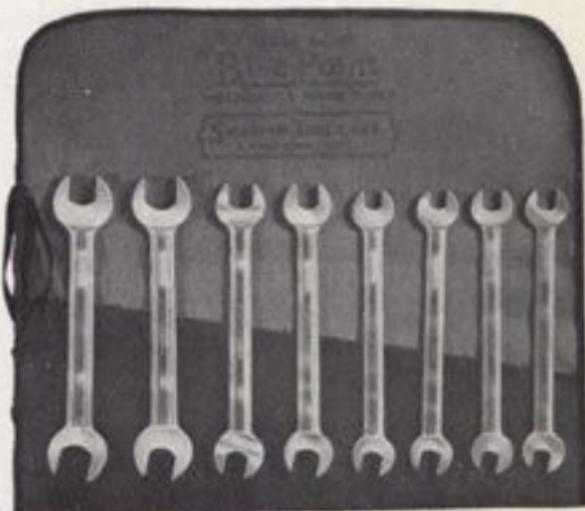
"Blue-Point Supreme" Tappet Wrench Sets

COMPRISING selections of the new Blue-Point Supreme tappet wrenches described on the opposite page. We have no hesitation in offering these sets as the most up-to-date tappet wrench sets so far developed.

ST-6 Set

A practical set of the six most needed sizes, consisting of the following tools.

Number	Openings
ST-1618	3/8" & 5/8"
ST-1816	5/8" & 11/16"
ST-2022	11/16" & 13/16"
ST-2220	13/16" & 5/8"
ST-2428	5/8" & 3/4"
ST-2824	3/8" & 5/8"
ST-6 Set—Tools only	\$5.70
ST-6K Set—Above tools in No. C-2 Leather Kit Bag	\$6.00



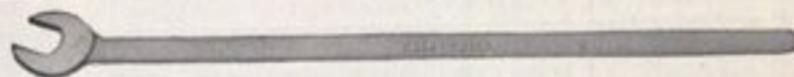
ST-8 Set

This set is complete and will service almost every make and model of passenger car and truck. It contains the following eight wrenches.

Number*	Openings
ST-1416 and ST-1614	5/8" & 1 1/2"
ST-1618 and ST-1816	1 1/2" & 9/16"
ST-2022 and ST-2220	9/16" & 11/16"
ST-2428 and ST-2824	11/16" & 7/8"
ST-8 Set—Tools only	\$7.40
ST-8K Set—Above tools in No. C-2 Leatherette Kit Bag	\$7.70

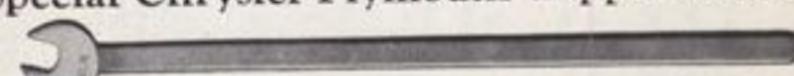
Long Tappet Wrenches

Note the long, slender handle and thin head which makes this type wrench mighty handy for tappet adjusting where there are hot manifolds to work around.



No.	Opening	Head Thickness	Length	Price
LT-14	7/16"	5/32"	12"	\$0.85
LT-16	13/32"	5/32"	12"	.85
LT-18	9/16"	11/64"	12"	.85
LT-20	11/32"	11/64"	12"	.85
LT-21	21/32"	11/64"	12"	.85
LT-22	11/8"	11/64"	12"	.85
NLT-4 Set—LT-14-16-18-20				\$3.40

Special Chrysler-Plymouth Tappet Wrench

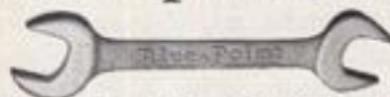


These tappets require a heavier wrench for tappet work as standard tappet wrenches are made too thin to stand up on these particular jobs. Every shop handling these cars will find this tool a valuable addition to their tool kits.

L-16 Special Tappet Wrench—Each.....\$0.85

Designed Correctly for Tappet Adjusting Work

Short Open End Wrenches



MANY small nut turning jobs found in carburetor, ignition, radio, electrical and other similar work require a small wrench of open end design such as these dandy little tools. They are regular Blue-Point quality, with openings accurately milled to properly accommodate these small nuts, and handles of length and thinness in proper proportion to the small heads. These wrenches will prove invaluable wherever turning space is limited on the sizes listed below.

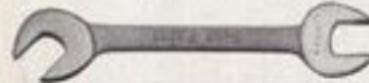
J-4 Set—Tools only \$1.80

J-4K Set—In C-9 Kit Bag . . . \$1.90



Sizes of Openings in Inches	Stock No.	Price	Head Thickness	Overall Length	SAE	USS Nuts	USS Cap. Sc.
3/16 & 7/32	J-1214	\$0.45	.110	2 1/2	.....	.....	.....
1/4 & 5/16	J-1620	.45	.150	2 13/16	.....	1/8	1/8
3/8 & 7/16	J-2428	.45	.180	3 1/2	.....	1/4	3/16 & 1/4
1/2 & 9/16	J-3236	.45	.200	3 15/16	5/16 & 3/8	1/4	5/16 & 3/8

Ignition Wrenches



Midget Size—makes easy work of all those tricky ignition and carburetor jobs. Ideal for all small radio and electrical bench work. Each wrench has two different sizes of openings, one straight with the handle and the other at 45°. Each size is duplicated on a separate wrench, but at a different angle, so that you have all openings available in both positions. I-1719 and I-1917 heads set at 90° and 15°.

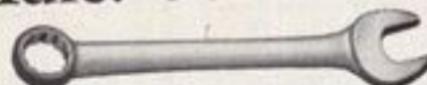
C-8 Set—Containing one each of all above tools except I-1719 and I-1917. \$3.60

C-8K Set—Above set in C-8 Kit Bag. \$3.85

Size	Stock No.	Price	Head Thickness	Overall Length	SAE	USS Nuts	USS Cap. Sc.
90° End	45° End						
7/32	15/64	C-1415	\$0.45	.100	2 1/2	.....	.....
15/64	7/32	C-1514	.45	.100	2 1/2	.....	.....
1/4	9/32	C-1618	.45	.110	2 7/8	.....	.....
9/32	1/4	C-1816	.45	.110	2 7/8	.....	.....
17/64	19/64	I-1719	.45	.110	3	.....	.....
19/64	17/64	I-1917	.45	.110	3	.....	.....
5/16	11/32	C-2022	.45	.110	3 1/4	1/8	1/8
11/32	5/16	C-2220	.45	.110	3 1/4	1/8	1/8
3/8	7/16	C-2428	.45	.135	3 21/32	1/4	3/16, 1/4
7/16	3/8	C-2824	.45	.135	3 21/32	1/4	3/16, 1/4

An Accurate Fit is More Important on Small Sizes

Short Hdle. Comb. Wrenches



Size of Openings Both Ends	Stock No.	Price	Head Thickness		Overall Length	SAE	USS Nuts	USS Cap Sc.
			Box End	Open End				
7/16	OEX-140	\$0.75	19/64	15/64	5 7/16	1/4	.....	1/4
1/2	OEX-160	.80	5/16	1/4	5 23/32	5/16	1/4	5/16
9/16	OEX-180	.85	21/64	17/64	6	3/8	.....	3/8
5/8	OEX-200	.90	11/32	9/32	6 5/16	7/16	.....	7/16
11/16	OEX-220	1.05	23/64	19/64	6 19/32	.....	3/8	3/8

OEX-50—Set of above five units.....

\$4.35

OEX-50K—Set in No. C-14 Kit Bag.....

4.60

Long Hdle. Comb. Wrenches



Size of Openings Both Ends	Stock No.	Price	Head Thickness		Overall Length	SAE	USS Nuts	USS Cap Sc.
			Box End	Open End				
1/2	OEX-16	\$0.85	5/16	1/4	7 5/8	5/16	1/4	5/16
9/16	OEX-18	.90	21/64	17/64	8 5/32	3/8	.....	3/8
5/8	OEX-20	1.00	11/32	9/32	8 11/16	7/16	.....	7/16

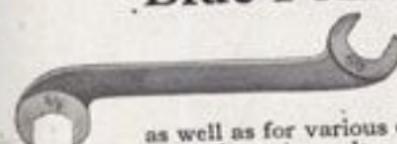
OEX-3—Complete Set of above units.....

\$2.75

OEX-3K Set—Above tools in No. C-14 Kit bag.....

3.00

Blue-Point "S" Wrenches

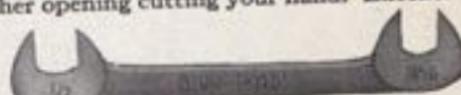


These wrenches have the same size of opening on each end, one at a 90° angle and the other at a 30° angle with the handle, adapted for adjusting Lockheed hydraulic brakes on many late model cars, as well as for various other jobs. An excellent all purpose tool for general repair work.

Size of Openings in Inches	Stock No.	Price	Head Thick- ness	Overall Length	SAE	USS Nuts	USS Cap Sc.
1/2	5216	\$0.75	.210	6 3/8	5/16	1/4	5/16
9/16	5218	.75	.210	6 3/8	3/8	.....	3/8
5/8	5220	.75	.210	6 3/8	7/16	.....	7/16

Right Angle Wrenches

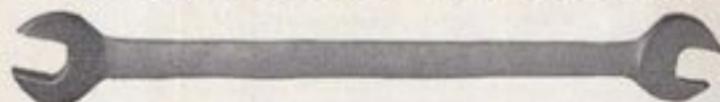
Made with both openings turned in the same direction so you can use the full leverage on either end without the other opening cutting your hand. Excellent for brake adjusting, manifold, cylinder head and spring shackle work as well as other close quarter jobs.



Size of Openings in Inches	Stock No.	Price	Head Thick- ness	Overall Length	SAE	USS Nuts	USS Cap Sc.
7/16 & 1/2	RA-1416	\$0.45	.200	5 1/2	1/4 & 5/16	..... 1/4	1/4 & 5/16
1/2 & 9/16	RA-1618	.65	.260	6 1/8	5/16 & 3/8	1/4	5/16 & 3/8
9/16 & 5/8	RA-1820	.65	.275	6 7/16	3/8 & 7/16	.....	3/8 & 7/16
11/16 & 13/16	RA-2226	.80	.345	7 1/2	.....	3/8	3/8
3/4 & 7/8	RA-2428	.95	.375	8 1/2	1/2 & 9/16	..... 1/2	1/2 & 5/8

Every Type of End Wrench That Efficiency Demands

Long Brake Wrenches



New Blue-Point wrenches designed for brake adjusting, etc.

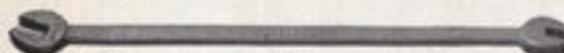
No.	Length	Openings	Head Thickness	Price
B-1450	16"	15/16" & 1 1/8"	7/16"	\$1.95
B-1451	16"	1" & 1 1/8"	7/16"	1.95
B-1452	15"	3/4" & 7/8"	7/16"	1.70

Special Bendix Brake Wrenches

Containing four sizes of openings for work on Bendix Brakes. A most excellent tool for every brake shop.

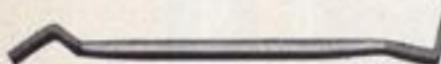


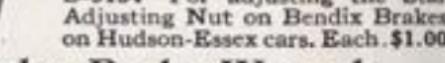
No.	Length	Openings	Price
B-1352	7"	5/16", 3/8", 5/8", and 11/16"	\$0.90

 B-1351 — Especially designed to take the Eccentric Cam on Bendix Internal Brakes and gives three most needed sizes of openings. 9" long, 3/4" head thickness, single end 5/8" opening, double end 3/4" and 5/8" openings. Each..... \$0.90

 S-9153—Special tool for turning the adjusting nut in Pontiac brakes. Each... \$0.75

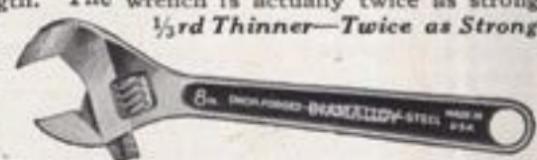
Special Buick-Dodge Brake Wrench

 BD-2428—Designed extremely thin and light and intended only for work on Buick and Dodge brakes. This tool cannot be guaranteed. Openings 3/4" and 5/8". Each..... \$0.90

 S-9154—For adjusting the Star Adjusting Nut on Bendix Brakes on Hudson-Essex cars. Each. \$1.00

Diamalloy Steel Wrenches

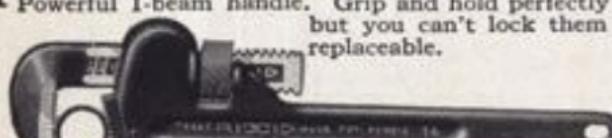
THE Diamalloy Featherweight Adjustable Wrench is made of a new alloy steel of remarkable strength. The wrench is actually twice as strong and a third thinner and lighter than the standard pattern. We recommend them as the best quality tools of this type made.



No.	Size	Capacity	Head Thickness	Weight	Price
D-46	6"	3/4"	13/32"	5 oz.	\$1.00
D-48	8"	11/16"	15/32"	8 oz.	1.25
D-410	10"	1 1/8"	19/32"	13 oz.	1.55
D-412	12"	1 5/8"	21/32"	24 oz.	2.25

Pipe Wrenches

THE housing of these wrenches is guaranteed against breakage or distortion. Powerful I-beam handle. Grip and hold perfectly under the stiffest pull but you can't lock them on a pipe. Jaws are replaceable.



No.	Size	Weight	Price	No.	Size	Weight	Price
6	6"	7 oz.	\$0.85	14	14"	3 3/4 lbs.	\$1.70
8	8"	15 oz.	.95	18	18"	5 lbs.	2.40
10	10"	1 1/4 lbs.	1.25	24	24"	8 1/2 lbs.	3.75

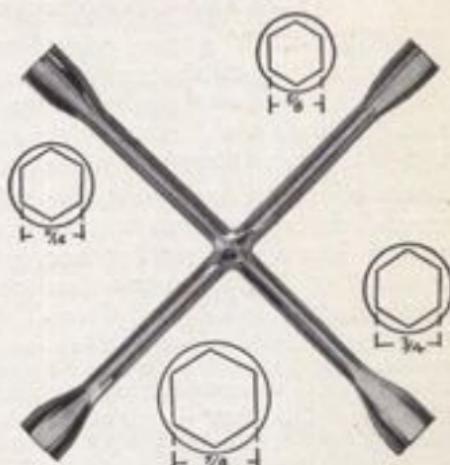
In Ordering by Mail Please Give Stock Number

Tire Servicing Tools

Blue-Point Rim Wrench

A four way speed wrench having powerful leverage, adapted for lug nuts and tire carrier nuts or bolts on over 90 per cent of the different makes of cars. Also adapted for practically all disc and wire wheel nuts. Sockets broached extra deep in order to clear bolt ends and the high acorn or cap nuts found on disc wheels.

No. 400— $\frac{5}{8}$ ", $1\frac{1}{16}$ ", $\frac{3}{4}$ ", and $\frac{1}{8}$ " openings, $1\frac{3}{8}$ " across each way. Highly polished nickel finish. Each.....\$2.00

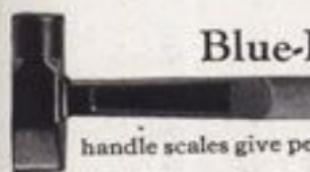


Blue-Point Stem Nut Wrench



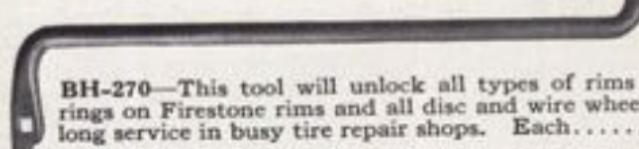
BH-44—For tightening or removing the lock nuts on tire valve stems on wire wheels. Both ends are offset and will fit the sizes usually used on wire wheels. Protects the enamel on spokes and wheels. This wrench is not suitable for general work and cannot be guaranteed. Each.....\$1.00

Blue-Point Tire Hammer



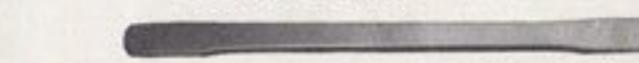
handle scales give perfect grip. Weight $3\frac{1}{2}$ lbs. Each.....\$2.75

Blue-Point Rim Tool



BH-270—This tool will unlock all types of rims and remove side rings on Firestone rims and all disc and wire wheels. Made to give long service in busy tire repair shops. Each.....\$1.50

Blue-Point Tire Tool



BH-250—Very tough tempered, forged steel. Round edges. Tapered from end to end. Will exert tremendous leverage. $\frac{3}{8}$ " thick, $1\frac{1}{16}$ " wide, 16" long. Each.....\$0.45

Allen Head Wrenches

Handy Wrenches to have in your tool kit and made in the most generally used sizes of Allen Head Screw.

Sizes	Price	Sizes	Price
$\frac{1}{16}$ "	\$0.05	$\frac{7}{16}$ "	\$0.10
$\frac{1}{8}$ "	.05	$\frac{1}{4}$ "	.10
$\frac{5}{16}$ "	.05	$\frac{5}{16}$ "	.15
$\frac{3}{8}$ "	.10	$\frac{3}{8}$ "	.20

The Blue Point Name Stands for Quality First

Blue-Point "Supreme" Chisels and Punches

EVERY-DAY garage use demands a chisel that will be hard enough to cut bolts, rivets, cast iron and steel, and even nickel steel axle shafts without injury to the cutting edge. Such use also demands a chisel stiff enough to be used as a wedge or lever and yet tough enough to withstand breakage.

Years of experiment have now developed a new combination of several metallic alloys which, when used with a high percent of carbon in an electric furnace, produces a steel which possesses physical qualities never before obtainable in tool steels. It is in fact a Semi-High Speed Steel.

Chisels and Punches made of this steel and properly heat-treated will out-cut and out-punch similar tools made from any other steel on the market today. Above all, the danger of flying chips is entirely eliminated.

Note the striking new design of this "Supreme" line—A square stock handle with edges fully rounded gives a firm working grip, less vibration and a solid drive. The stainless steel finish imparts a durable, rust-proof surface—easy to keep clean, and adds a lustrous gleaming appearance.

Supreme Flat Chisels



No.	Square Stock	Edge	L'gth	Each
S-812	$\frac{3}{8}''$	$\frac{3}{8}''$	$5\frac{1}{2}''$	\$0.45
S-816	$\frac{1}{2}''$	$\frac{1}{2}''$	6"	.55
S-820	$\frac{1}{2}''$	$\frac{5}{8}''$	$6\frac{1}{2}''$	.65
S-824	$\left\{ \begin{array}{l} \frac{11}{16}'' \\ \frac{1}{2}'' \end{array} \right\}$	$\frac{3}{4}''$	7"	.75
S-828	$\left\{ \begin{array}{l} \frac{5}{8}'' \\ \frac{3}{4}'' \end{array} \right\}$	$\frac{3}{8}''$	8"	.90

Flat Chisel Set

Consisting of one each of the above sizes and giving you the proper tool for practically every chisel job.

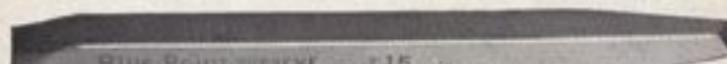
No. SC-5 Set—Tools only.....\$3.30
No. SC-5K Set—Above set in C-5 Kit Bag.....\$3.50

Supreme Cape Chisels



No.	Square Edge	Edge	Length	Each
S-13	$\frac{3}{8}''$	$\frac{3}{8}''$	6"	\$0.55
S-14	$\frac{1}{2}''$	$\frac{1}{2}''$	6"	.60

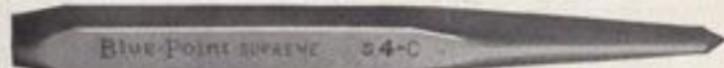
Supreme Diamond Point Chisels



No.	Square Stock	Edge	Length	Each
S-15	$\frac{1}{2}''$	$\frac{1}{2}''$	$6\frac{1}{4}''$	\$0.55
S-19	$\frac{5}{8}''$	$\frac{5}{8}''$	$5\frac{1}{2}''$	.45

Better Design, Greater Strength, Finer Finish

B. P. Supreme Punches Supreme Center Punches



S-3-C— $\frac{1}{16}$ " Square Stock, 5" Length. Each..... \$0.35
S-4-C— $\frac{1}{16}$ " Square Stock, 6" Length. Each..... .45

Supreme Pin Punches

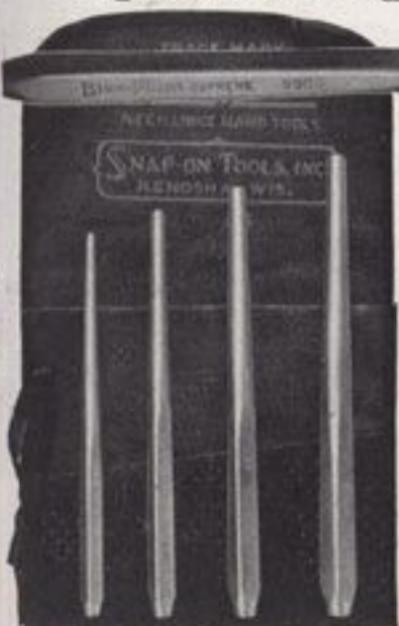


No.	Square Stock	Point	Length	Each
S-603	$\frac{1}{16}$ "	$\frac{1}{16}$ "	5"	\$0.40
S-604	$\frac{1}{16}$ "	$\frac{1}{16}$ "	5 $\frac{1}{2}$ "	.45
S-605	$\frac{1}{16}$ "	$\frac{1}{16}$ "	6"	.50
S-606	$\frac{1}{16}$ "	$\frac{1}{16}$ "	6 $\frac{1}{2}$ "	.60
S-608	$\frac{1}{16}$ "	$\frac{1}{16}$ "	6 $\frac{3}{4}$ "	.65
S-610	$\frac{1}{16}$ "	$\frac{1}{16}$ "	7"	.70

Pin Punch Set

No. SP-6 Set—Containing one each of the above six sizes of Supreme Pin Punches. Tools only..... \$3.30
No. SP-6K Set—The above set in 5-C Kit Bag. Net..... \$3.50
Note: Due to the extremely fine points on Nos. S-603 and S-604 we cannot guarantee these two tools.

Supreme Long Tapered Punches



No.	Square Stock	Point	Length	Each
S-905	$\frac{1}{16}$ "	$\frac{1}{16}$ "	8"	\$0.55
S-908	$\frac{1}{16}$ "	$\frac{1}{16}$ "	8 $\frac{1}{2}$ "	.65
S-910	$\frac{1}{16}$ "	$\frac{1}{16}$ "	9"	.75
S-912	$\frac{1}{16}$ "	$\frac{1}{16}$ "	9 $\frac{1}{2}$ "	.85

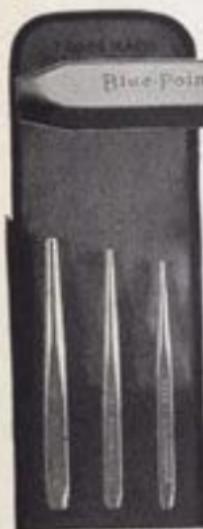
L. T. Punch Set

No. SLTP-4 Set—Consisting of one each of the above four sizes of Supreme Long Tapered Punches. Tools only..... \$2.80

No. SLTP-4K Set—The above set in 5-C Kit Bag. Net..... \$3.00

"Supreme" Starter Punches

WHEN driving out pins, bolts, etc., it is always advisable to begin the job with a "starter" punch. These punches are tapered to give a strong shaft capable of withstanding the first heavy shock blows without breaking.



Blue-Point SUPREME S-200

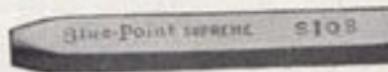
No.	Square Stock	Length	Each
S-204	$\frac{5}{16}$ "	$6\frac{1}{8}$ "	\$0.50
S-206	$\frac{7}{16}$ "	$6\frac{3}{8}$ "	.60
S-210	$\frac{9}{16}$ "	7"	.65

Starter Punch Set

No. SS-3 Set—Contains one each of the above three Starter Punches. Tools only. \$1.75
No. SS-3K Set—The above set in No. C-13 Kit Bag. \$1.95

"Supreme" Drift Punches

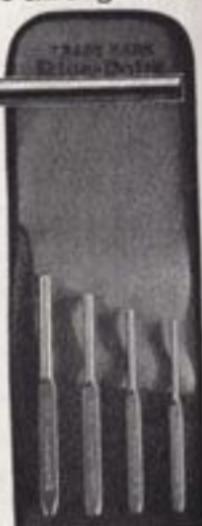
FOR finishing the job of removing the pins or bolts already started with the Starter Punches listed above. Never start a pin with a drift punch. It is not designed for such work. Use a Starter Punch to loosen the pin and finish pushing it through with a Drift Punch.



No.	Square Stock	Point	Length	Each
S-104	$\frac{5}{16}$ "	$\frac{5}{16}$ "	5"	\$0.40
S-106	$\frac{7}{16}$ "	$\frac{7}{16}$ "	$5\frac{1}{8}$ "	.45
S-108	$\frac{9}{16}$ "	$\frac{9}{16}$ "	$5\frac{1}{8}$ "	.50
S-110	$\frac{11}{16}$ "	$\frac{11}{16}$ "	$6\frac{1}{8}$ "	.60

No. SD-4 Set—Containing one each of the above punches. Tools only. \$1.95

No. SD-4K Set—The above set in No. C-13 Kit Bag. \$2.15



Vest Pocket Chisel and Punch Set

This nifty little set gives you some handy midget size tools for your regular work as well as for radio and many small electrical jobs.

No. VP. Set consisting of: 4 punches, $\frac{1}{4}$ " octagon stock, 4" length, in different styles and sizes of points. 1 Flat Chisel, $\frac{1}{4}$ " octagon stock, $\frac{1}{16}$ " edge, 4" length.

In leatherette kit. \$1.40

As these small tools are subject to abuse we cannot guarantee them.



Blue-Point Flat Chisels

HAND-FORGED from finest electric furnace, high carbon chisel steel, individually heat-treated and tested to the standard best adapted to the use for which each tool is designed. Perfectly balanced, hand-ground cutting edges. The blades are long and thin and can be re-edged with a file when necessary.

Note: Never re-edge a chisel on a grinding wheel, as the temper will invariably be changed to a less satisfactory degree of hardness.



No.	Stock	Edge	Length	Each
812	$\frac{3}{8}$ "	$\frac{3}{8}$ "	5 $\frac{1}{2}$ "	\$0.35
816	$\frac{1}{2}$ "	$\frac{1}{2}$ "	6"	.40
820	$\frac{3}{8}$ "	$\frac{3}{8}$ "	6 $\frac{1}{2}$ "	.45
824	$\frac{5}{8}$ "	$\frac{3}{8}$ "	7"	.50
828	$\frac{3}{4}$ "	$\frac{3}{8}$ "	8"	.65

Flat Chisel Set

Consisting of the five sizes of Flat Chisels shown above, giving you the correct tools for practically every chisel job.

No. C-5 Set—Tools only.....\$2.35
No. C-5K Set—Above tools in 5-C kit bag.... 2.55



Long Flat Chisels



No. 1020	$\frac{5}{8}$ " stock, $\frac{3}{8}$ " edge, 11" length.	Each.....	\$0.75
No. 1024	$\frac{3}{4}$ " stock, $\frac{3}{8}$ " edge, 12" length.	Each.....	1.00
No. 1628	$\frac{3}{8}$ " stock, $\frac{3}{8}$ " edge, 16" length.	Each.....	1.25
No. 1832	$\frac{7}{8}$ " stock, 1" edge, 18" length.	Each.....	1.65

Blue-Point Pin Punches



No.	Stock	Point	Length	Each
603	$\frac{1}{8}$ "	$\frac{3}{16}$ "	5"	\$0.30
604	$\frac{3}{8}$ "	$\frac{3}{16}$ "	5 $\frac{1}{2}$ "	.35
605	$\frac{7}{16}$ "	$\frac{3}{16}$ "	6"	.35
606	$\frac{1}{2}$ "	$\frac{3}{16}$ "	6 $\frac{1}{2}$ "	.40
608	$\frac{1}{2}$ "	$\frac{1}{4}$ "	6 $\frac{3}{4}$ "	.45
610	$\frac{5}{8}$ "	$\frac{5}{16}$ "	7"	.50

No. P-6 Set—Consisting of one each of the above six sizes of Pin Punches. Tools only.....\$2.35

No. P-6K—Above set in No. C-5 leatherette kit bag.....\$2.55

Note: Due to the extremely fine points of Nos. 603 and 604, we cannot guarantee these two tools.

Always Use a File to Re-sharpen a Chisel

Blue-Point Punches

HAND-FORGED from the finest electric furnace, high carbon, special alloy punch and chisel steel, individually hardened in hot lead bath process, carefully tempered. These punches are built to stand the every day tough usage that professional mechanics require and will stand up to the most strenuous demands.

Lining Up Punches

No.	Stock	Point	Taper	Overall	Each
914	$\frac{3}{16}$ "	$\frac{7}{16}$ "	6"	10"	\$0.85
916	$\frac{3}{16}$ "	$\frac{9}{16}$ "	$6\frac{1}{4}$ "	$10\frac{1}{2}$ "	1.00
1216	$\frac{3}{16}$ "	$\frac{9}{16}$ "	$6\frac{1}{4}$ "	12"	.80
1558	$\frac{3}{16}$ "	$\frac{9}{16}$ "	$8\frac{1}{4}$ "	15"	1.10
1608	$\frac{3}{16}$ "	$\frac{11}{16}$ "	$5\frac{1}{2}$ "	16"	1.00
1810	$\frac{3}{16}$ "	$\frac{11}{16}$ "	6"	18"	1.00
2412	$\frac{3}{16}$ "	$\frac{11}{16}$ "	$6\frac{1}{4}$ "	24"	1.45

Blue-Point Pinch or Jimmy Bars

1112— $\frac{7}{16}$ " octagon stock, $\frac{1}{2}$ " edge, 11" length.	Each	\$0.85
1658— $\frac{1}{2}$ " octagon stock, $\frac{5}{8}$ " edge, 16" length.	Each	1.25
2434— $\frac{3}{4}$ " octagon stock, $\frac{15}{16}$ " edge, 24" length.	Each	1.50

Blue-Point Pry Bar

New design pry bar that will do everything the standard design bar will do, plus a great deal more. This rolling head has a tremendous amount of leverage and can often be used for prying out gears, bushings, etc.

No. 1650—Pry Bar. Each.....\$1.25

Blue-Point Bushing Remover

Insert tool in bushing, give it a few turns with

a wrench and it cuts its own thread without wedging so you can easily hammer out the bushing.

1234—For $\frac{3}{8}$ " to $\frac{3}{4}$ " bushings. Each.....\$1.75

Cotter Pin Tool

6-P—For spreading or removing cotter pins. Also used for packing water pumps and other jobs.

Six inches long, $\frac{1}{8}$ " octagon stock. Point on one end, flat edge on other. Each.....\$0.40

Rivet and Ring Gear Busters

No. RB-10—Rivet Buster— $\frac{3}{4}$ " stock, $\frac{3}{4}$ " edge, 10" length. Each.....\$0.85

No. RG-10—Ring Gear Buster— $\frac{5}{8}$ " stock, $\frac{1}{2}$ " edge, 2 x $\frac{3}{4}$ " angle, 10" length. Each.....\$0.85

Blue-Point Never Builds Down to a Price

Ball Pein Hammers

STRICTLY a quality line of hammers, correctly designed and balanced, heat treated just right to make them the most serviceable for all around work, handsome blued finish. The handles are made of selected second growth, well seasoned hickory, carefully turned so that the grain runs full length of handle to give maximum strength and resiliency, securely anchored in the heads.

One only of the twelve sizes are illustrated.
Made in a complete range of weights, as follows:

No.	Weight	Price	No.	Weight	Price
7-0	2 Oz.	\$0.95	1	1 1/4 Lbs.	\$1.10
5-0	4 Oz.	.95	2	1 1/2 Lbs.	1.15
4-0	6 Oz.	.95	3	1 3/4 Lbs.	1.25
3-0	8 Oz.	.95	4	2 Lbs.	1.30
2-0	12 Oz.	.95	6	2 1/2 Lbs.	1.50
0	1 Lb.	1.00	8	3 Lbs.	1.75

Extra Handles for any size hammer. Highest quality obtainable and conforming to Government specifications. Each..... 25c

Cellulose Tip Hammers

A SOFT tip hammer for fitting piston pins, fender bumping, tapping bearings, plated parts, etc. They will stand a lot of pounding without undue marring of the face. Extra tips can be fitted on when necessary.

No. 691 — 1/2-lb. Hammer.....	Each	\$1.50
No. 691A—Extra tip for above.....	Each	.45
No. 692 — 1-lb. Hammer.....	Each	1.75
No. 692A—Extra tip for above.....	Each	.45

Screw Extractors



USED for removing broken studs and screws, especially when the stud has broken off flush in such places as cylinder heads, manifolds, main bearings, etc. The spline shaft design will take the drill hole quickly and easily without spreading the broken stud.

Note: Be sure to use the size drill marked on the extractor.

High-carbon, molybdenum steel with special qualities for resisting shocks and holding a wedging edge.

Easily removed from broken stud.

No.	Handles Thread Sizes	Use Drill Hole	Each
E-1	1/16" to 1/4"	1/16"	\$0.45
E-2	5/32" to 5/8"	5/32"	.45
E-3	11/32" to 1/2"	1/2"	.50
E-4	13/32" and over	13/32"	.60

SE-44—Complete Set of four Screw Extractors..... \$2.00

SE-44K—Complete Set in No. C-12 Kit Bag..... 2.20

Blue-Point Quality Sets a National Standard

Hand Forged Screw Drivers

THIS new series of Blue-Point Hand Forged Screw Drivers offer an exceptional value to the mechanic who wants a good quality tool to turn screws with and not to use as a cold chisel or pry bar. We have designed these units expressly for screw driving work and state definitely that they are not constructed to be used in place of a pry bar or as a chisel.

The blades are forged from electric furnace alloy tool steel and are carefully heat-treated to provide maximum torque strength and resiliency to the extreme end of the blade. Blades are ground to a long thin taper to fit snugly into screw slots. Wooden handles of selected straight grained stock are fashioned to fit the hand comfortably and provide a perfect grip. We recommend this line as the finest quality "Screw Driving" Screw Drivers.

No.	Blade Length	Blade Edge	Stock	Price
2-W	2"	3/16"	1/16"	\$0.45
4-W	4"	1/4"	1/4"	.65
6-W	6"	5/16"	5/16"	.85
8-W	8"	3/8"	3/8"	1.00
12-W	12"	5/8"	5/8"	1.25

Blue-Point General Purpose Screw Drivers



Blade extends clear through handle to an enlarged hexagon butt, can't turn in handle. Ferrule riveted through handle and blade. Octagon stock, tool steel especially heat treated.

X- 144—Blade 1/4" wide, 4" long.	Each.....	\$0.50
X- 5166—Blade 3/8" wide, 6" long.	Each.....	.60
X- 388—Blade 3/8" wide, 8" long.	Each.....	.80

Miscellaneous Screw Drivers

No. 1010 — Small pyralin handle driver suitable for radio, ignition, carburetor, and small electrical work. Blade 1 1/2" long. Each..... \$0.25



No. 181 1/2 Wooden handle driver with 1010 181 1/2 142



1 1/2" length blade 1/8" stock. Handy for all small jobs. Each..... \$0.25

No. 142 Convenient wood handle blade 2" long 1/4" stock. A sturdy tool for small jobs. Ea., 40c

No. 152 Short, sturdy tool for close work. Maple handle grooved to give a good grip. Blade 3/8" wide 1 1/2" long. Each..... \$0.35

No. 154 Sturdy, short screw driver for close work. Shock proof pyralin handle adapts it to electrical jobs. Each..... \$0.50

No. 153 A strongly built screw driver designed for work on overhead valve adjusting screws. Tip ground just right for this particular work. Very useful for drag links, etc. where space is limited. Wooden handle. Blade 2 1/8" long, 3/8" stock. Tip 3/8" wide 1/8" thick. Each, \$0.65

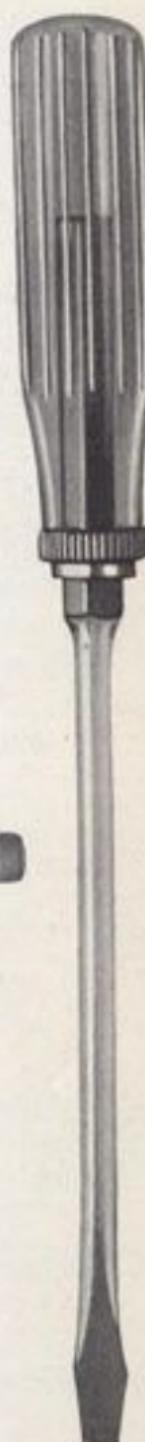
No. 3168 Slender 8" blade for generator and other electrical work. Wooden handle fluted to give a good grip. Each..... \$0.60

3168

B. P. "Pyralin" Screw Drivers

THESE Screw Drivers are comparable in quality to the Insuloid drivers shown on the opposite page. They are built to stand the most severe screw driver requirements of the average professional mechanic. The blades are forged from a high carbon, chrome vanadium alloy tool steel, carefully hardened and tempered to provide the most exacting degree of toughness and resiliency. The blade is cross ground at the tip; the edges are smooth and will not ride out of the screw head groove.

Handles are molded onto the blades and two fins on the shank prevent the blade from turning in the handle. They are made of transparent amber colored pyralin and are fluted to give a comfortable, secure grip. This material is an insulator making the drivers suitable for use in electrical work. We recommend both our Insuloid and Pyralin screw drivers as the finest quality tools, but offer the two styles to suit your individual preference.



No.	Blade Length	Blade Edge	Stock	Each
4-PH	4"	1/4"	1/4"	\$0.75
6-PH	6"	1/4"	1/4"	1.00
8-PH	8"	1/4"	1/4"	1.25
12-PH	12"	1/4"	1/4"	1.50

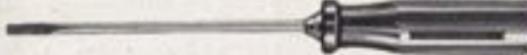
Cabinet Screw Drivers



Long, thin drivers, especially good for electrical and body work—get into close corners. Pyralin handles, $1\frac{1}{2}$ " square alloy steel blade—carefully heat-treated to give sturdy strength. Well balanced and giving a firm grip.

No. 143—3" Blade. Each.....	\$0.60
No. 146—6" Blade. Each.....	.75
No. 1410—10" Blade. Each.....	.85

Spark Testing Screw Driver



A slender bladed, blue pyralin handle screw driver with a neon tube fitted into the handle for spark testing purposes. Simply place the blade tip to the plug and watch the flash in the handle window. Brilliant flash indicates a good plug; thin flash, spark gap is too narrow; no flash, plug is shorted.

No. 145 Screw Driver—Each.....	\$0.95
--------------------------------	--------

Offset Screw Drivers

No. 050 Especially good for drag link and shock absorber work. $1\frac{1}{2}$ " octagon stock, blades $1\frac{1}{2}$ " wide, $1\frac{1}{2}$ " thick, length 7". Each.....	\$0.75
---	--------

The following numbers have the offset on opposite sides of the handle as illustrated. Many mechanics prefer this style.

No. 020— $1\frac{1}{2}$ " stock, 4" length. Each.....	\$0.40
No. 030— $1\frac{1}{2}$ " stock, 4 $\frac{1}{2}$ " length. Each.....	.50
No. 040— $1\frac{1}{2}$ " stock, 5 $\frac{1}{2}$ " length. Each.....	.60

Our Tool Salesmen Are Also Tool Service Men

Vacuum Grip Pliers

BUILT to the Highest Attainable Quality Standards. Recognized by particular mechanics the world over as a true quality line, and known everywhere for their remarkable strength and durability.

Hammer-forged from special high carbon Silico-Molybdenum alloy tool steel—NOT CASE HARDENED on surface only—but hardened and tempered thru and thru.

Water Pump Packing Nut Pliers

Powerful gripping pliers especially designed for adjusting packing nuts and at the same time providing an all-round general use heavy duty tool



for turning any shape nut, bolt, rod, etc. The tool is built on a new adjustable gear tooth principle, giving several jaw adjustment positions and a perfect gripping lock in each position. A tool for water pump packing nuts giving you a single unit that will handle all sizes. It cannot be beaten for many everyday jobs and grips like a pipe wrench on all round objects.

No. 9 Water Pump Packing Nut Pliers. Each.....\$2.00

Ignition Pliers

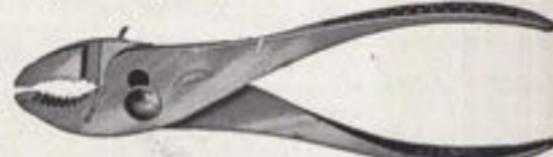


No. 105—Midget Pliers built on the same gripping principle as the No. 9 described above, but featuring the standard four point adjustable slide joint. It is a dandy tool for servicing those small carburetor, ignition, and electrical jobs.

No. 105 Ignition Pliers—5" long. Each.....\$1.25

Heavy Duty Pliers

A giant for gripping. Hss wire cutter and adjustable slide joint.



No. 47—7". Each....\$1.50

No. 49—9". Each....2.25

General Use Pliers



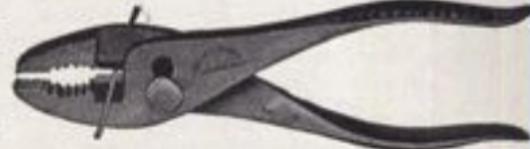
Combining powerful cutters with tremendous gripping power; adjustable joint; bow handles.

No. 34—4½". Each....\$1.25

No. 35—5". Each....1.60

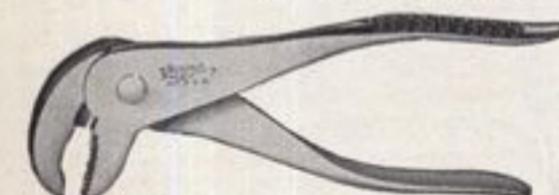
No. 36—6". Each....1.75

Same head design as No. 35, but having full fashioned handles.



No. 137—7". Each....\$2.00

Angle Nose Grippers



The most powerful type of gripping pliers. It holds like a pipe wrench. The head is set at a 90° angle for better leverage. Has an adjustable slide joint.

No. 207—Gripping Plier. Each.....\$1.50

Vacuum Grip Pliers—Cont'd

Needle Nose Pliers

Spring tempered, extremely durable.

No. 96—6". Without Wire Cutter. Each..... \$1.50
No. 196—6". With Wire Cutter. Each..... \$1.85
No. 197—7". With wire cutter. Full fashioned handles. Each..... \$2.50



Special Valve Pin Pliers

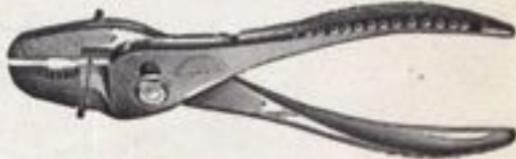


Matched grooves in jaw for tight-grip on valve pin; also cross milled groove.
No. 597—7". Each..... \$2.50

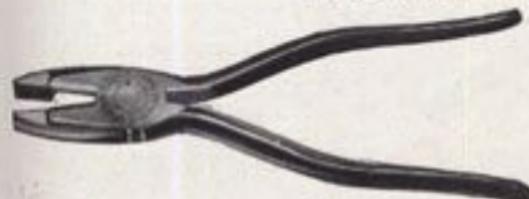
The Aviator

Capacity far exceeds size. Thin nose; side wire cutters; adjustable joint. Very popular with airplane mechanics.

No. 65—5". Each..... \$1.50



Lineman Pliers



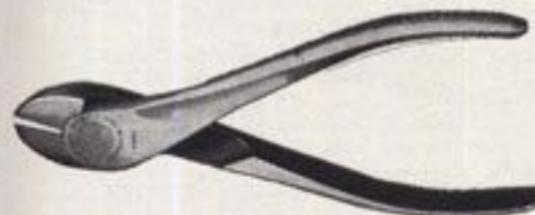
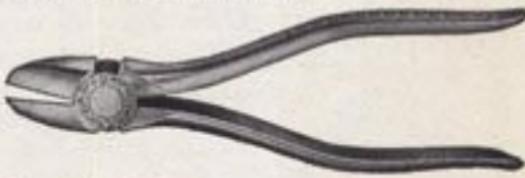
A powerfully built tool for gripping, twisting, hammering and cutting. Full fashioned handles afford a comfortable screw grip.

No. 57-R—7". Each..... \$2.50
No. 58-R—8". Each..... 3.25

Heavy Duty Diagonal Cutters, Fashioned Handles

Powerful cutting nipper. No. 87 for cotter pin work and other tough cutting jobs.

No. 85—4½". Each..... \$1.65
No. 86—6". Each..... 2.00
No. 87—7". Each..... 2.50



Diagonal Cutters

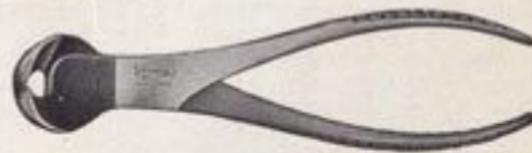
Bow handle, heavy duty pattern.

No. 386—6". Each..... \$1.65

End Cutters

A very efficient tool for many cutting operations.

No. 17—7". Each..... \$1.90

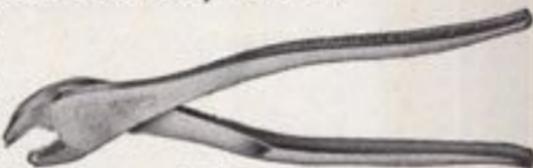


Vacuum Grip Pliers—Cont'd

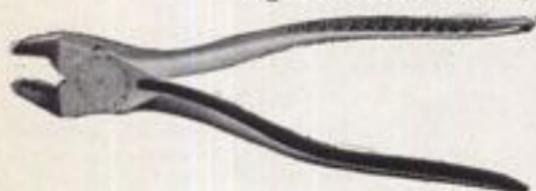
Angle Nose Battery Pliers

This entire tool is much thinner than the standard type battery pliers and with the tapered jaws set at a 35° angle provides the strongest possible grip.

No. 308—7". Each.....\$1.50



Special Battery Pliers



Designed expressly for battery installation work. Grips the nuts firmly. Note the new offset jaws which provide knuckle clearance.

No. 7-A—7". Each.....\$1.50
No. 7—7". Same size as No. 7-A, but with straight jaws. Each.....\$1.50

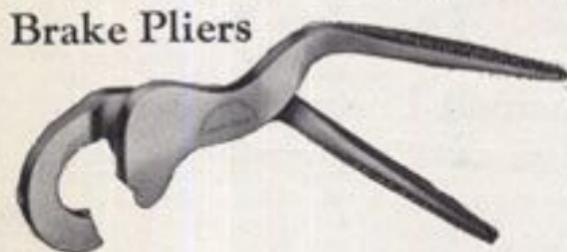
Battery Terminal Puller

Pulls the tightest terminal easily without injury to the cable or battery post.

No. 412 Terminal Puller. Each.....\$2.25



Brake Pliers



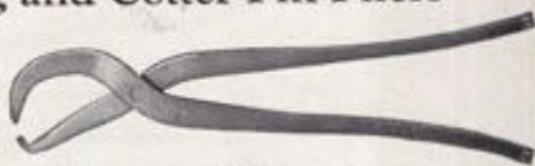
For adjusting the knurled adjusting nut on Steeldraulic brakes.

No. 14-B—For Steeldraulic brakes all cars except 1931 and earlier Oakland, Pontiac and Auburn. Each.....\$1.50
No. 14-A—For 1930-31 Oakland, Pontiac and Auburn. Each.....\$1.50

Brake Spring and Cotter Pin Pliers

For removing any size cotter pins and for removing or replacing brake springs on any car except Ford. (See page 62 for special Ford tool.)

No. 312—Each.....\$2.25



Piston Ring Groove Cleaner

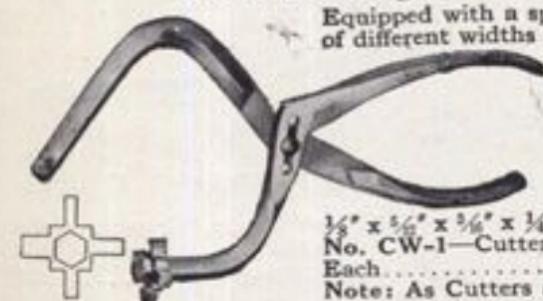
Equipped with a special cutter having four blades of different widths to cover a wide range of piston ring sizes. Easily adjusted so as to use any required blade. Self-centering in any piston ring groove.

No. 13-P—Complete with 13-CW Cutter. Each.....\$2.50

No. 13-CW—Cutter Wheel, $1\frac{1}{8}'' \times \frac{5}{6}'' \times \frac{5}{16}'' \times \frac{1}{4}''$. Each.....\$0.50

No. CW-1—Cutter Wheel, $\frac{3}{16}'' \times \frac{9}{16}'' \times \frac{5}{16}'' \times \frac{3}{16}''$. Each.....\$0.50

Note: As Cutters are subject to abuse we cannot guarantee them.

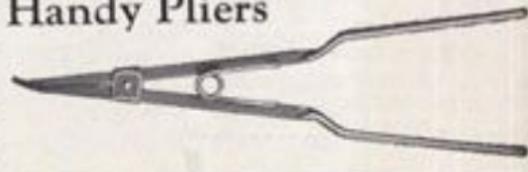


Have a long reach of $9\frac{1}{4}''$ and a strong grip that does not easily let go. Handy for picking up nuts, cotter pins, etc.

No. 90 — Straight Nose. Each.....\$0.35

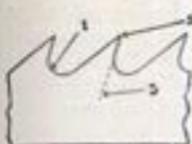
No. 91—Bent Nose as illustrated. Each.....\$0.35

Handy Pliers



Built to the Highest and Closest Standards

Blue-Point Hack Saws



1. Large round gullet allows chips to curl free and not clog in teeth—prevents breakage.
2. Keen, sharp edge insures long life.
3. Undercut tooth requires less pressure per stroke. Less strokes to cut piece.

No. 10 Package—24, 10" blades, 12 coarse, and 12 fine..... \$1.70

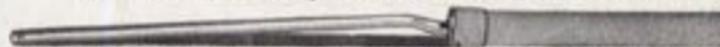
No. 12 Package—24, 12" blades, 12 coarse and 12 fine..... \$2.00

Hack Saw Frame



HS-1—A high grade frame, pistol grip, nickel finish. Each..... \$1.25

Blue-Point Junior Hack Saw



A-51—The ideal saw for use in very close quarters. Sturdy construction, holding the blade with a powerful, non-buckling grip. Blades 6" x $\frac{1}{8}$ ", with 32 teeth to the inch.

A-51—Junior Hack Saw complete with one blade..... \$0.95

No. 6—Packet of twelve blades..... .75

Broken lots, any type, per blade..... .10

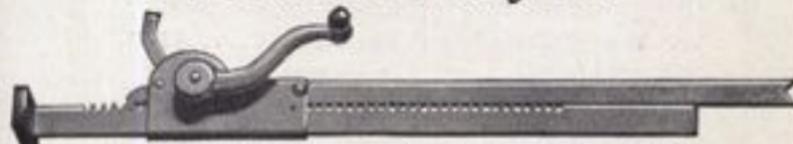
Tubing Flaring Tool

The simplest and handiest device on the market for this very necessary job. Does a perfect job of flaring quickly and easily. No complicated adjustments to make. This tool is also adapted for use as a drill jig in drilling cotter pin holes in shackle bolts, etc. The bolt is clamped in the proper size hole and the drill used through the small holes in the side of the tool.

The body is made in two sections which clamp together by means of two thumb screws and hold the tubing tightly in position while the flaring punch is driven in by means of light hammer blows. Flares sizes of tubing $\frac{1}{8}$ ", $\frac{3}{16}$ ", $\frac{5}{16}$ " and $\frac{3}{8}$ ". The tool has a rust proof Cadmium plated finish and is a real quality tool.

A-30 Tubing Flaring Tool. Each..... \$2.25

Brake Pedal Jack



Holds the brake pedal in any desired position while adjusting brakes. The "T" base is placed against the heel board and the notched end on the pedal and is adjusted by means of a crank. The automatic lock holds it securely in the desired position. One man can adjust the brakes. This tool can also be used to hold up the oil pan while bolts are being replaced. Also to test the looseness of main bearings. It is strong enough to lift the weight of any auto or truck flywheel and crankshaft. Handle has a ratchet feature for clearing obstructions. Light—Quick—Positive in action—A regular Mechanic's Handy Helper.

BP-1 Pedal Jack. Each..... \$2.50

Snap-Ons Lead in Service to the Mechanic

Blue-Point Feeler Gauges



No. 310 Ten Blade Gauge—Blades $3\frac{1}{2}$ " long in following thicknesses: .002, .003, .004, .005, .006, .007, .008, .010, .012, and .015. Each.....\$1.00



No. 314

BLADES of tested accuracy, finest imported ultra superior Swedish tempered steel. Gauges equipped with knurled nut permitting user to slide out the required blade and lock it in position, leaving other blades locked in handle.

No. 324 Combination Gauge—Ideal for general purpose work. Ten fine blades for tappet work, etc., and fourteen narrow fingers for ignition work. Blades $2\frac{1}{2}$ " long in thicknesses: .002, .003, .004, .005, .006, .007, .008, .010, .012, and .013. Fingers $1\frac{1}{4}$ " long in thicknesses: .008, .010, .012, .013, .015, .018, .020, .022, .024, .025, .028, .030, .032, .035. No. 324 Gauge—Each.....\$1.65



No. 310

No. 314 Ign. & Gap Gauge—Fourteen of the most necessary finger thicknesses. Fingers $1\frac{1}{4}$ " long in the following thicknesses: .008, .010, .012, .013, .015, .018, .020, .022, .024, .025, .028, .030, .032, .035. Each.....\$0.95

Extra $3\frac{1}{2}$ " Blades in regular thicknesses. Each... $12\frac{1}{2}$ c
Extra $2\frac{1}{2}$ " Blades in regular thicknesses. Each...10c
Extra $1\frac{1}{4}$ " Fingers in regular thicknesses. Each...10c
Special thicknesses of blades or fingers. Each...15c

Feeler Gauge Holder

HOLDS two thicknesses of feeler gauge stock in $12'$ lengths. The two sections pivot together or swing around in opposite directions and lock in either position. Sliding ferrule holds feeler stock tight in holder.

No. 316 Feeler Gauge Holder—Each.....\$0.65

12" Strips—Any thickness, .0015 to .060, width $\frac{1}{2}$ ". Each.....25c

Note: As importers of this stock direct from Sweden, we are able to furnish it to large users in 12" strips or in bulk.

Prices in any required thickness will be furnished upon request.



Snap-On Wheel Pullers

WP-20—Constructed with loose pilot—has $\frac{1}{16}$ " movement which is sufficient to pull any wheel with ease. Hexagon shape allows the use of a socket wrench. Cross milled grooves clean up the axle threads.

WP-20— $\frac{5}{8}$ " Thread size. Each.....\$1.25



KO-24



WP-20

Solid Type Knock-Off Pullers

Operate on the shock principle—simple and efficient and adaptable to practically all popular makes of cars. A $\frac{3}{16}$ " hole drilled through the puller provides an easy means of tightening by the use of a small bar. As these units are subject to abuse they are not guaranteed.

KO-24—Thread size $\frac{3}{16}$ ". Ea... \$0.80
KO-28—Thread size $\frac{1}{8}$ ". Ea... .85

KO-32—Thread size 1". Ea... \$0.95

KO-40—Thread size $1\frac{1}{4}$ ". Ea... 1.20

Tinners' Snips

No. 7-TS—High grade tinnings' snips, with carefully hardened and tempered blades to hold a sharp cutting edge. Pair.....\$1.25

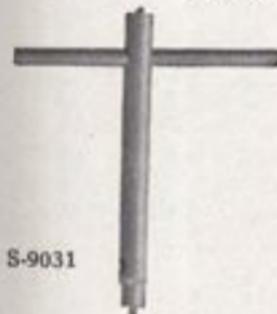


We Use Only the Finest Swedish Steel for Feeler Blades

Special Ford Tools

FORD mechanics will appreciate the ease with which these "specials" simplify difficult jobs. Each one has been carefully designed to handle tough or awkward operations and to give you the most efficient tool for the purpose. Each tool carefully heat-treated, polished chrome finish. Midget Deep Sockets adaptable to Ford carburetor work shown on page 4.

Carburetor Valve Wrench



S-9031

Handles a couple of hard-to-reach jobs easily and quickly. Large end for the carburetor jet and the small end for the carburetor gasoline valve adjusting screw. The inserted pins are made from tempered music wire—tough and durable. The sliding bar can be removed after breaking the jet loose and the tool spun between the fingers.

S-9031—Carb. valve wrench. Ea. \$0.85

Main Bearing Bolt Holder for V-8

Used on the V-8 engine to hold the main bearing bolts from turning while adjustments are being made and the nuts being tightened. The tool consists of a special curved, double end handle and two $\frac{3}{16}$ " square sockets. Sockets lock on the handle by means of a plunger type locking pin—cannot slip off—easy to remove. The shape of the handle prevents it from dropping off the bolts.

S-9022— $\frac{3}{16}$ " square socket (not guaranteed). Each. \$0.50

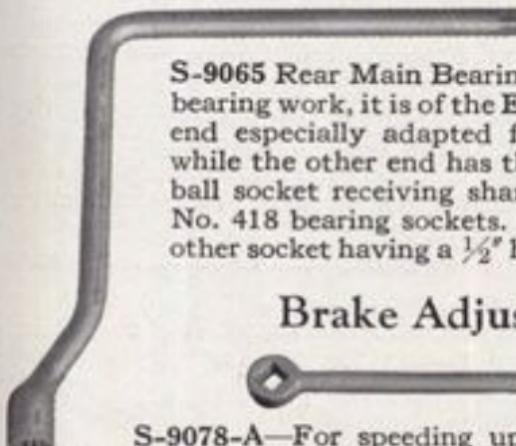
S-9022-A—Special curved handle. Each.80

S-9022-X—Tool complete with handle and two sockets. Each. \$1.80

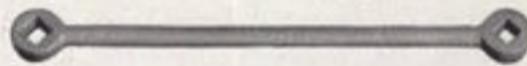


Rear Main Bearing Wrench

S-9065 Rear Main Bearing Wrench. An ideal tool for bearing work, it is of the Ell type handle with a socket end especially adapted for the rear main bearing, while the other end has the standard $\frac{1}{2}$ " square and ball socket receiving shank to take the S-9001 and No. 418 bearing sockets. Can also be used with any other socket having a $\frac{1}{2}$ " handle opening. Each. \$1.75



Brake Adjusting Wrench



S-9078-A—For speeding up brake adjusting work on model "A" and "AA" Ford cars and trucks. Square openings $\frac{1}{16}$ " and $\frac{15}{32}$ ", 11" long, providing ample leverage and accessibility to all brakes. Each. \$1.35

Tool Users Appreciate Our Specialized Service

Ford Valve Bushing Removers & Grinding Bushings



S-9010



S-9011

SIMPLE and easy to use, without danger of injury to valve stem, bushings or guide hole. Simply remove spring and raise valve. Drop Bushing Remover No. S-9010 around the valve stem. Tap valve lightly from the top to dislodge the two sections of bushings. When bushing is out, remove valve from block, take S-9011 Grinding Bushing, which is made in two sections and held together by a spring clip. Snap valve stem into Grinding Bushing. Insert the assembly in guide hole for grinding operation. These tools offer the correct and least expensive way to handle the operation.

S-9010—Ford Valve Bushing Remover. Each..... 75c
 S-9011—Ford Grinding Bushing. Each..... 75c
 S-9011-S—Extra Spring for above. Each..... 5c



SV-9010



SV-9011

Special Units for Model "V-8"

SV-9010—V-8 Valve Bushing Remover. Each..... 75c
 SV-9011—V-8 Grinding Bushing. Each..... 75c
 SV-9011-S—Extra spring for SV-9011. Each..... 5c

Note: The Grinding Bushing is well worth its price merely for use in setting the tappets.

Piston Pin Remover and Inserter



S-9005 For Models "T," "A," "AA," "B" and "BB"



S-9026 For Model V-8

Makes it easy to insert or remove Ford Piston Pins. The tool consists of a knurled handle with threaded shank and a tapered tubular nose into which the shank is screwed.

To remove pin, insert the shank through the pin and screw the nose on until tool is set tightly in the pin. Tap the nose with a hammer to jar the locking ring loose and the pin is easily withdrawn.

To insert pin in piston, assemble the pin in the tool in above manner, heat the piston to expand pin hole, insert nose of tool and tap it through piston and connecting rod bearing until the locking ring seats itself and pin is in place.

S-9005—Blue-Point Piston Pin Tool—Each..... \$2.00

Special Tool for Model "V-8"

The V-8 has a different sized piston pin and requires a smaller tool to service it.
 S-9026—V-8 Piston Pin Remover. Each..... \$1.45

Ford Brake Pliers

S-9068—Special Brake Pliers for removing the spring from the brake shoe. Each..... \$1.35



Ford Mechanics Need These Special Tools

Special Ford Tools

Ford Hub Bolt Set Punches

These are an improved type and much easier to use than the ordinary hub bolt set punch. The end is cross milled to form four notches and by turning the punch for each hammer blow the notches quickly spread the metal and firmly set the bolts without excessive use of hammer.



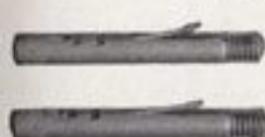
S-9016—For passenger cars, $\frac{7}{8}$ " diameter, $5\frac{1}{2}$ " long.

Each..... \$1.10

S-9017—For trucks, $1\frac{1}{8}$ " diameter, $5\frac{1}{2}$ " long. Each..... 1.50



Ford Oil Pan Holding Screws



These tools will positively save time and labor while replacing oil pans on Ford cars. Insert the screws into bolt holes on opposite sides of the crank case flange. Lift the oil pan up over the screws so that the springs catch the flange and hold it in place. Both hands are then free to replace the bolts.

S-9080—Per pair..... 40c



Ford "A" Conn. Rod Socket

S-9001—Connecting Rod Socket. The connecting rod job on Model "A" Fords requires a socket with a $2\frac{1}{16}$ " opening and this new socket is especially designed for the purpose. You can handle the job a lot smoother with this unit and it will certainly pay you to have it.

$2\frac{1}{16}$ " double broached opening. Fits Master handles.



Each..... 50c

S-9025



Ford "V-8" Conn. Rod Socket

S-9025—A specially designed $\frac{9}{16}$ " Double Hexagon Socket for connecting rod bearing work on model V-8. Standard sockets will not handle this job. Each..... 50c

Ford Main Bearing Socket

S-9024— $\frac{3}{4}$ " Double Hexagon Socket for use on rear main bearings on all models. A Nut Spinner Handle makes an ideal handle for this job. Each..... 45c

Brake Cam Socket for Ford Trucks

S-9004—Special Heavy, Straight Walled Socket with $\frac{1}{2}$ " single broached square opening for adjusting brake cam on Ford trucks.

Each..... 50c

Ford Headlight Socket

S-9033—Designed for removing the headlights on a V-8 Ford. The slot in the socket wall allows room to work over the headlight cable in the fender channel bracket and the lock nut can be removed in a series of short turns.

Each..... 75c



S-9033

Brake Cam Socket for Ford Cars

S-9002—Special Heavy, Straight Walled Socket with $1\frac{1}{16}$ " single broached square opening for adjusting brake cam on Ford passenger cars.

Each..... 50c



S-9002

Ford Fan Pulley Socket

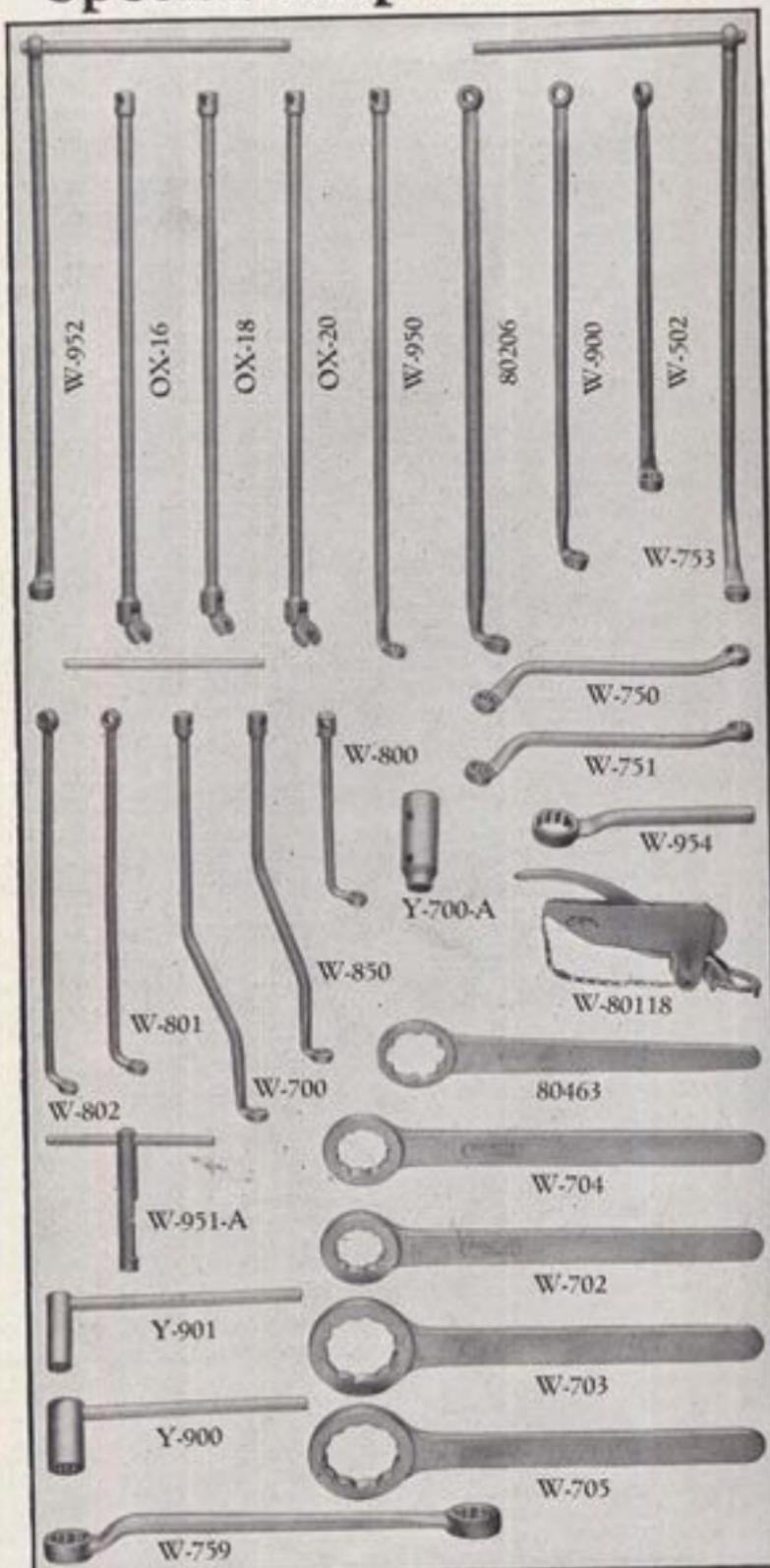
S-9006—A special $1\frac{3}{8}$ " Hexagon Socket for use on the regular Ford starting crank to service the crank jaw and fan pulley nut, permitting this operation to be performed without removing the radiator.

Each..... 95c



S-9006

Special Airplane Tools



DESIGNED to aid the mechanic working on airplane motors by furnishing him the correct tool to reach those hard-to-get-at nuts. See following pages.

The Tools Mechanics Swear By and Not At

Special Airplane Tools

Continental Motors

W-700— $\frac{1}{2}$ " opening (with bar), cylinder base bolt nuts. Each..... \$2.50

Curtis Motors

W-750— $\frac{1}{2}$ " openings, cylinder base bolt nuts on Model R-600. Each..... \$2.20

W-751— $1\frac{1}{16}$ " opening, cylinder base bolt nuts on Model H-1640. Each..... \$2.30

W-753— $\frac{1}{2}$ " opening (with bar), cylinder base bolt nuts. Each..... \$2.75

W-759— $1\frac{1}{16}$ " and $1\frac{1}{8}$ " openings, special Boxocket for cam timing nut on Curtis motors. Each..... \$2.55

LeBlond Motors

W-800— $\frac{1}{2}$ " opening (with bar), cylinder base bolt nuts. Each..... \$1.75

W-801— $\frac{1}{2}$ " opening (with bar), cylinder base bolt nuts. Each..... \$2.00

W-802— $\frac{1}{2}$ " opening (with bar), cylinder base bolt nuts. Each..... \$1.85

Pratt and Whitney Motors

W-900— $\frac{1}{2}$ " opening, (with bar handle) cylinder base bolt nuts on Hornet and Wasp. Each..... \$2.25

Warner Motors

W-850— $\frac{1}{2}$ " opening, (with bar) cylinder base bolt nuts. Each..... \$2.75

Wright Motors

W-950— $\frac{1}{2}$ " opening, (with bar) cylinder base bolt nuts, models J-5 and R-975. Each..... \$2.50

W-952— $\frac{1}{2}$ " opening, (with bar) cylinder base bolt nuts. Each..... \$2.75

Y-951— $\frac{1}{2}$ " opening, special Snap-on tee socket wrench, for rocker arm housing stud nut. Each..... \$1.50

W-954— $1\frac{1}{8}$ " opening, oil thermometer connection. Each..... \$2.00

80463— $2\frac{1}{16}$ " opening, Boxocket for impeller drive shaft bearing lock nut, model R-1750. Each..... \$6.50

80206— $\frac{1}{2}$ " opening, (with bar) cylinder base stud nut. Each..... \$2.50

W-80118—Specially constructed valve spring compressor for the Wright Whirlwind Motors. Length 9", width 2", height $2\frac{3}{4}$ ". Weight $1\frac{1}{4}$ lbs. Special cam handle locks the tool after spring is compressed. Each..... \$4.75

Miscellaneous

W-502— $\frac{1}{2}$ " Boxocket for cylinder base bolt. (Comet Engineering Co.; part number A-432.) Each..... \$2.50

Y-700-A— $1\frac{1}{16}$ " and 1" openings, special socket for airplane spark plugs (with bar handle No. Y-700-B). Each..... \$1.10

Y-900—1" opening, Hammer Head wrench for shielded spark plugs, model IXA B-G Aviation Plug. Each..... \$0.90

Y-901— $1\frac{1}{16}$ " opening, Hammer Head wrench for shielded spark plugs, model 4-B B-G 18mm Hornet Spark Plug. Each..... \$0.90

W-702— $1\frac{1}{8}$ " opening, for propeller hub nut. Each..... \$2.75

W-703— $2\frac{1}{16}$ " opening, for propeller hub nut. Each..... \$3.25

W-704— $1\frac{17}{16}$ " opening, for propeller hub nut. Each..... \$2.75

W-705— $2\frac{1}{4}$ " opening, for propeller hub nut. Each..... \$3.25

Crowfoot Wrenches

(Subject to abuse and not guaranteed)

OX-16— $\frac{1}{2}$ " opening, 18" length. Each..... \$0.95

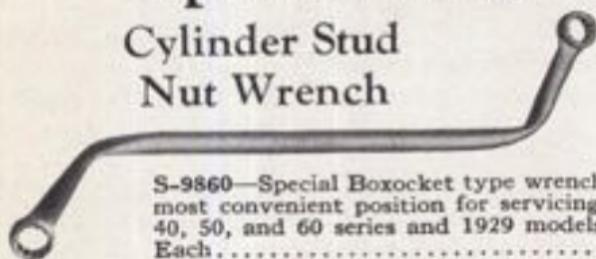
OX-18— $\frac{1}{2}$ " opening, 18" length. Each..... .95

OX-20— $\frac{1}{2}$ " opening, 18" length. Each..... .95

These Wrenches Answer a Popular Demand

Special Buick Tools

Cylinder Stud Nut Wrench



S-9860—Special Boxocket type wrench with handle bent to the most convenient position for servicing cylinder rear stud nuts, 40, 50, and 60 series and 1929 models. $\frac{5}{8}$ " and $\frac{3}{4}$ " openings. Each.....\$1.50



Crankshaft Turning Tool

S-9894—Designed for turning crankshaft on 8 cylinder models. A good strong tool that is mighty convenient to use for this purpose. Each.....\$0.95

Buick Timing Gear Puller Rings

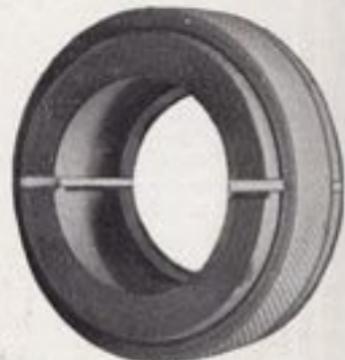
These tools give a substantial hold on the fibre timing gear. Any universal gear puller may be used. This saves expense of special pullers.

There is no danger of damaging the fibre gear. Quick, simple and easy to use.

XP-3 for 1931 and Previous Models

This ring is split in two segments, with an outer retaining band which holds the tool securely in position. An inner flange engages the groove on the timing gear hub and an outer collar provides a gripping surface for the puller hooks.

XP-3 Timing Gear Ring.....\$1.75



XP-3

XP-4 for 1932-'34 Models

1932-'34 Buick Timing Gears pull from the inside and require the XP-4. The two semicircular sections are placed inside the hub with the flanges engaging the groove. The center section is then slipped in between the other two to hold them in position. An outer flange provides gripping surface for puller hooks.

XP-4 Timing Gear Ring.....\$1.95



XP-4

Buick Cylinder Head Stud Bolt Wrench

For all 1930 and '31 Models, as well as for Standard and Master Six 1928 and Older Models



No. 2513-A—A wrench of special design, one end with a $\frac{5}{8}$ " double broached box type opening, and the other end a $\frac{3}{4}$ " crowfoot. Reaches with ease all Buick cylinder head stud bolts from the right hand side. Much easier to use than other wrenches which make it necessary to work from both sides. Each.....\$2.35

Buick Mechanics Need These Special Tools

Special Buick Tools

Spark Plug Socket

S-9803-A—An extra deep hexagon socket for spark plug work on all models. Each.....\$1.05



Steering Gear Wrench

S-9876-A—1½" Boxocket type wrench designed for adjusting steering gear eccentric on all 8 cylinder models. This has a very thin head and cannot be guaranteed. Each.....\$1.25

Special Buick & Chevy Tool

VL-15 Valve Spring Compressor

Has three handle adjustment holes on the fulcrum post. The jaws always ride parallel to the motor block.



The swinging foot rests on the block with one of the interchangeable studs in the bolt hole. Studs fit Buick and Chevy.

Services many other overhead motors

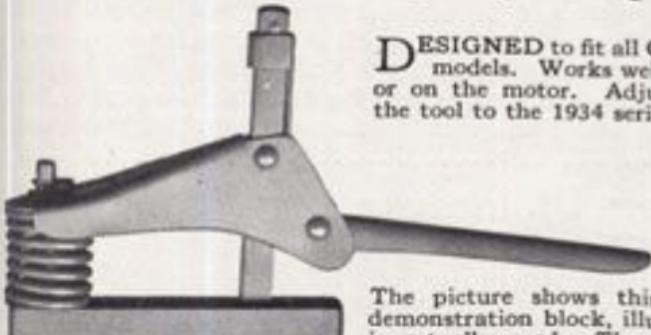
ADAPTABLE to all Buick and Chevrolet cars and many other autos with overhead type engines. It is a speedy and mighty efficient little tool to use and compresses these springs with an easy one-hand movement. It will make you money because it does the job quicker and easier than any other lifter now in use.

VL-15—Spring Compressor.....
Each.....\$2.00

Special Chevrolet Tools

VL-11 Valve Spring Compressor

DESIGNED to fit all Chevrolet six cylinder models. Works well either on the bench or on the motor. Adjustment slide adapts the tool to the 1934 series with offset valves.



The picture shows this handy tool on a demonstration block, illustrating just how it is actually used. The rounded end of the square post is set in one of the cylinder head bolt holes, with the jaws resting on the spring cap, and then the handle is depressed as far as possible. The tool will stay locked in this position.

VL-11—Valve Spring Compressor. Each.....\$1.00

Steering Gear Wrench

S-9597—1½" Boxocket Wrench for servicing the steering gear eccentric on Chevrolet. Also takes Pontiac and Buick 50 series. Due to the special thin design, this tool cannot be guaranteed. Each.....\$1.15



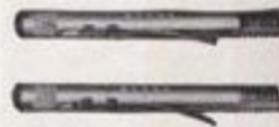
Special Chevrolet Tools

Main Bearing Sockets

The cap screws on the 1933 Chevrolet main bearings vary in size and it is necessary to make two sizes of sockets to handle all jobs.

	S-9502— $1\frac{1}{16}$ " Single Broached, Shallow, Straight-Walled Socket for 1933 Chevrolet main bearing cap screws. Each.....	40c
	S-9503— $2\frac{1}{16}$ " Double Broached, Shallow, Straight-Walled Socket for 1933 Chevrolet main bearing cap screws. Each.....	40c

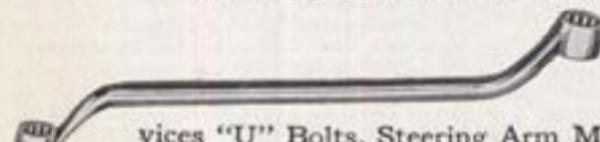
Oil Pan Holding Screws



Save time and labor while replacing the oil pan. Screw into bolt holes on opposite sides of crank case flange, slip oil pan over until springs catch and hold the pan in place leaving your hands free to replace the bolts.

S-9595—Oil Pan Screws. Per pair..... 40c

Handy Chevrolet Wrench



vices "U" Bolts, Steering Arm Mtg. and Knuckle Cap, Spring Shackles, Tie Bolts, Cylinder Heads, Bumpers, Headlight Adjusting and many other important jobs. Each..... \$1.65

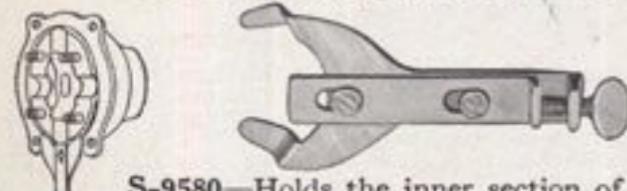
S-9562-A—One of the handiest tools a Chevrolet mechanic can own. Services "U" Bolts, Steering Arm Mtg. and Knuckle Cap, Spring Shackles, Tie Bolts, Cylinder Heads, Bumpers, Headlight Adjusting and many other important jobs. Each..... \$1.65

Chevrolet Hub Bolt Punch

S-9505—In replacing or tightening hub bolts on Chevrolet wire wheels it is necessary to rivet over the shoulder. Slip this punch over the threaded part of the bolt and it will do a quick, easy job of riveting. The end is cross milled to form four notches and by turning the punch for each blow these notches quickly spread the metal and set the bolt. Each..... \$1.10



Universal Joint Assembly Tool



S-9580—Holds the inner section of the universal joint securely in position while the joint is being assembled. Once the tool is in place both hands are left free to do the actual assembly work. It is a very simple matter to slip the engaging jaws under the universal section and screw tightly the middle sliding jaw. Quick—efficient—easy to use. No more fussing and cussing on this tricky operation. The tool can also be used on Pontiac universals. Each..... \$1.25

We Offer These Specials for Chevrolet Service

Made Exclusively for Snap-On Tools, Inc.

Snap-On MechaniKits

K-24 MechaniKit

BIG enough to accommodate the average mechanic's small tool equipment. A separate tool tray offers a convenient means of carrying necessary units right to the job. Fitted with strong hinges, two suitcase type fasteners and strong hasp for padlocking. It's the equal in quality of many boxes double the price. Measures 20" x 7 3/4" x 5 1/2". Tray 19" x 7" x 2 1/2". Weight 12 lbs. Grey enamel finish.



Price varies according to branch Zone.

(Zone 1, \$4.00) (Zone 2, \$4.05) (Zone 3, \$4.10) (Zone 4, \$4.25) (Zone 5, \$4.50).

K-25 MechaniKit

THE best box we ever built at anywhere near this price. It's a good strong tool box and big enough to take a good size kit of small tools. Spot welded for strength and fitted with three good hinges, large leather carrying handle, two fasteners and a sturdy lock hasp. Measures 21 1/4" x 8 3/4" x 7 1/2". Carrying tray holds the tools you need at hand on the job—4 compartments in tray. Tray 20 1/4" x 8" x 3 1/4". Weight 17 lbs. Finished in grey enamel. Price varies according to branch zone.

(Zone 1, \$5.15) (Zone 2, \$5.25) (Zone 3, \$5.30)
(Zone 4, \$5.50) (Zone 5, \$5.85)

K-21 MechaniKit

NO OTHER box of its size can compare with K-21 MechaniKit for convenience, rugged strength and lasting qualities. Lid is gable shaped to give extra strength and room. Leather suitcase type handle. Partitioned tool tray No. KT-1, 3 1/4" deep with strong metal carrying handle—a corking good tool carrier while you're at work. Two drawers of different depths allow you to segregate your tools. Sliding tray holds Ferret and Midget cases. Weighs 32 lbs.

Measurements:

Case, 21" x 8 3/4" x 11 1/4"
KT-1 Tray, 20 1/4" x 8" x 3 1/4"

Top Drawer, 20 1/4" x 7 3/4" x 1 1/2"

Bottom Drawer, 20 1/4" x 7 3/4" x 3"

Price complete varies according to branch zone.

(Zone 1, \$7.95) (Zone 2, \$8.25)

(Zone 3, \$8.35) (Zone 4, \$8.75)

(Zone 5, \$9.95).

KT-1
Tool Tray only,
Each \$1.45

Built
like a house
for strength



It Pays to Protect Your Tool Investment

Made Exclusively for Snap-On Tools, Inc.

K-22 Snap-On MechaniChest



Measurements: Chest, $20\frac{1}{4}'' \times 8\frac{3}{4}'' \times 10\frac{1}{4}''$
Top Tray $20\frac{1}{4}'' \times 8'' \times 2\frac{1}{2}''$
Top Drawer $19\frac{1}{2}'' \times 7\frac{1}{4}'' \times 1\frac{1}{2}''$
Middle Drawer $19\frac{1}{2}'' \times 7\frac{1}{4}'' \times 2''$
Bottom Drawer $19\frac{1}{2}'' \times 7\frac{1}{4}'' \times 3''$

Price varies according to branch zone.
(Zone 1, \$7.75) (Zone 2, \$7.85) (Zone 3, \$7.95)
(Zone 4, \$8.25) (Zone 5, \$8.95).

K-23 Snap-On MechaniChest

A Big Brother to the K-22
ESSENTIALLY the same design as K-22 but built larger and more substantial. We do not believe it possible to build a better quality tool chest for the price it carries. It is offered for the thousands of mechanics who require a maximum amount of space for their kits and who demand the utmost in utility, quality, and economy. Three big strong drawers and an open top tray provide for separation of various kinds of tools. Lid and front panel are both fitted with piano type hinge. One strong hasp for padlock secures the entire contents. Has two strong trunk handles for carrying. Grey enamel finish.

33 lbs. of welded sheet steel—built-in quality.



Measurements: Chest, $24'' \times 9'' \times 11\frac{1}{4}''$
Top Tray $24'' \times 8'' \times 3''$
Top Drawer $22\frac{1}{2}'' \times 7\frac{1}{4}'' \times 1\frac{1}{2}''$
Middle Drawer $22\frac{1}{2}'' \times 7\frac{1}{4}'' \times 2''$
Bottom Drawer $22\frac{1}{2}'' \times 7\frac{1}{4}'' \times 3\frac{1}{2}''$

Price varies according to branch zone.
(Zone 1, \$11.25) (Zone 2, \$11.35) (Zone 3, \$11.45) (Zone 4, \$11.75) (Zone 5, \$12.95).



There is no Substitute for Quality

Made Exclusively for Snap-On Tools, Inc.

Snap-On Tool Chest

Designed for Your Work Bench

ROOMY—sturdy—handy. Holds complete tool equipment of the average mechanic. Top section has three compartments, the larger being made so as to accommodate the KT-1 Tool Tray if desired. (See page 69.)



Bottom section has six drawers, of different widths and depths, to hold various kinds and sizes of tools. All drawers strongly supported and easy sliding.

Top lid has piano hinges, with corners protected by steel guides for accurate fit. Front or drop door slides under bottom drawers out of way during work.

The main body and larger compartments of the chest are made of heavy, 20-gauge steel, all corners and edges reinforced, spot-welded throughout—the strongest and most durable construction possible. Equipped with heavy handles at the ends, suitcase style catches and strong hasp for padlock. Finished in black enamel.

Price varies according to branch zone.

(Zone 1, \$18.75) (Zone 2, \$19.00) (Zone 3, \$19.25) (Zone 4, \$20.00) (Zone 5, \$21.00)

Note: No. KT-1 Tool Tray furnished additional, if desired. Each . . . \$1.45

Snap-On Roller Tool Bench

HOLDS mechanic's complete hand tool equipment—rolls right to the job on big, easy-running casters, serves your tools to you, speeds up your work, saves many trips to the work bench.



When working on an engine, the flat top acts as a work bench. When you're underneath a car lower tray holds the tools you need in easy reach. At night lock 'em all up in the roomy drawers. One big hasp locks all drawers.

When grinding valves use the handy, removable valve shelf which hangs on either side of bench. Prevents mixing up valves and insures getting them all back into original positions.

Heavy sheet steel and angle-iron construction. Drawers spot-welded. Shelves assembled to legs with bolts and nuts with lock washers. Black enamel finish.

Overall dimensions—36½" high, 18½" wide and 24½" from front to back.

Drawers—Each with three compartments. Top drawer, 14½" wide, 20" long, 2½" deep. Middle drawer, 14½" wide, 22" long, 4½" deep. Bottom drawer 15½" wide, 24½" long, 7" deep.

No. K-7—Snap-On Roller Tool Bench, a sturdy, compact, efficient working unit and tool container.

Price varies according to branch zone.

(Zone 1, \$20.25) (Zone 2, \$20.75) (Zone 3, \$21.00) (Zone 4, \$22.25) (Zone 5, \$24.25)

Built for the Man Who Wants the Best

Shop Equipment Section

For purposes of easier reference by the shop owner, we have segregated from our general line and describe on the following pages those tools generally considered as shop equipment items. Like thousands of other owners, you probably have given ready permission for the Snap-on salesman to service the tool needs of your mechanics but have not realized the value this man can be to you or the number of shop equipment items the Snap-on and Blue-Point lines include.

Snap-on calls regularly with a two-fold purpose: 1. A complete line of quality hand tools and periodic service for mechanics. 2. A selected list of shop tools developed through years of experience and with the recommendations of shop owners and service men, for many of the difficult and everyday jobs in the modern repair shop.

B. P. Body and Fender Tools

CORRECTLY designed tools of finest obtainable material are essential for the production of good work; Blue-Point body and fender repair tools fulfill these requirements. The items shown here will enable the mechanic to handle practically any job of body dents or crumpled fenders and to do a better job, easily and quickly.

Dolly Blocks

Regular or Toe Dolly Block



No. 613—Full surface ground and polished. Weight 2 1/2 lbs., 4 3/4" long, 2 1/4" wide, 1 1/8" thick.

Each.....\$1.50

Heel Dolly Block



No. 614—Full surface ground and polished. Weight 2 1/4 lbs., 2 3/4" long, 3 1/8" wide, 1 1/2" thick. Ea. \$1.50

Small Hand Hold Dolly



No. 618—Working surfaces ground and polished. Weight 2 3/4 lbs.

Each.....\$1.00

General Purpose Dolly Block



No. 616—Full surface ground and polished. Weight 3 lbs.

Each.....\$3.00

Bar Dolly



No. 585—Full surface ground and polished. Weight 3 1/4 lbs. 4 5/8" long, 2 3/2" wide, 1 1/8" high. Fits contours of latest models. Each.....\$1.50

Fender Bracket Dolly

Drop forged, working face polished, body black enamel. Shaped so that it can be inserted between the fender bracket and fender. Designed to service ten leading makes of cars.

No. 689—Weight 1 1/4 lbs. Each.....\$2.00



Body Spoons



Small—Offset Blade

No. 6105—Weight 5 1/2 oz. Overall length 7". Blade 1 1/8" wide. Each.....\$0.75

Blue Point Quality Will Repay You

Body Repair Tools—Cont'd

Long—Offset Blade

No. 6115—Weight 11½ oz. Overall length 10½".
 Blade 1½" wide. Each \$1.00



Wide Body Spoon

No. 612—Weight 16 oz. Overall length 10½".
 Blade 1½" wide. Each \$1.25

Long Body Spoon

No. 611—Weight 8 oz. Overall length 11½".
 Blade at point 3½", at the heel 1½". Each \$0.75



Combination Spoon and Bending Iron

No. 6265—For straightening fender flanges, pushing out panel dents, etc.

Made from spring steel. Weight 2 lbs. Overall length 16". 1½" stock. Each \$1.50

Adjustable Flexible File Holder



WH-14—Adjusts file either concave, flat or convex as required for different surfaces. A safety feature limits the adjustment so that the file cannot be sprung enough to break it. Each \$1.95
 14" Flexible Curved Tooth File for above. Each 2.15

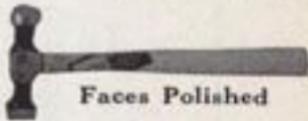
Body Workers Hammers

Fender Bumper

Faces Polished
 Used underneath the fender to rough out
 bumps, no need to remove the wheels.
 Weight 1½ lbs. Overall length 14". Head 8" long. Faces 1½" diameter.
 No. 596—Fender Bumper. Each \$2.50

Bumping Hammer

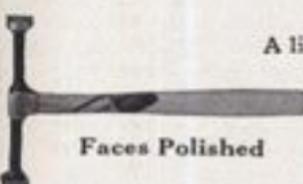
No. 604-H—14 oz. weight. Overall length 12".
 Head 4½" long. Round face 1½" diameter.
 Square face 1½" square. Each \$1.25



Faces Polished

Dinging Hammer

A light weight finishing hammer

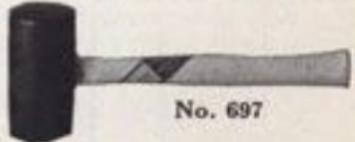


Faces Polished

No. 599—Weight 10 oz. Overall length 11½".
 Head is 6½" long. Large face is 1½" diameter
 and small face 1½" diameter. Each \$1.95

Fender Bumping Mallet

No. 697—Rubber composition head, will not shatter, chip or split. Excels hickory for durability. Head 2½" by 4½". Handle 11½" long. Each \$1.75



No. 697

Blue-Point Multi-Purpose

A Precision Bench Grinder and Valve Refacer Bench Grinder

ARUGGED, general purpose Bench Grinder that is smooth running and vibrationless. Direct drive, no belts or gears. A constant flow of power giving steady cutting without hesitation. High speed dust and rust proof $\frac{1}{3}$ H.P. AC or DC motor. Precision bearings. Adjustable, detachable guards and rests. You can start with this machine and build up till you have the complete Multi-Flex machine shown on the opposite page.



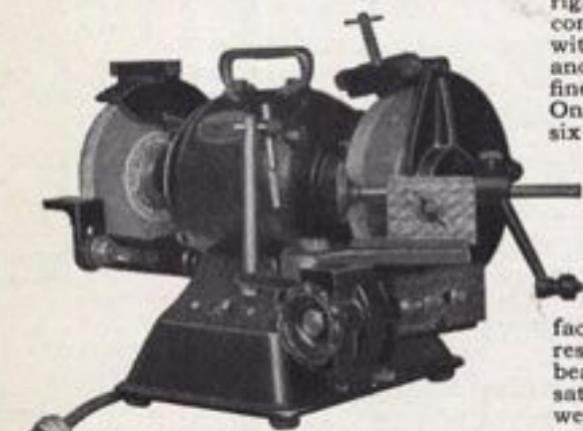
Precision Grinder

SAME machine as above but fitted with special guards and a Diamond Wheel Dresser which dresses the wheel without stopping the motor. Produces a true round wheel with a uniform flat surface, enabling the operator to grind tools and machine parts with extreme accuracy. Meets the requirements of machine shops, tool rooms, pattern shops and all places where accurate grinding is required. Can be used for both precision and ordinary grinding.

Multi-Purpose Machine

A COMBINATION Precision Bench Grinder and Valve Refacing machine. The motor and base are the same as on the Bench Grinder described above. To this machine is attached as

standard equipment on the right-hand motor spindle a complete valve facing unit with Diamond Wheel Dresser and six inch, ten degree bevel fine wheel, accurately balanced. On the left handle spindle is a six inch straight faced coarse wheel, with special slotted wheel guard, diamond block and universal adjustment grinding rest forming a precision bench grinder. Attachments are also included as regular equipment for facing tappets and sharpening reseating cutters. Only two bearings to oil. Self-compensating Gibb takes care of only wearing surface, keeping the machine true indefinitely.



Price List of Above Equipment

Bench Grinder—6"	\$53.60
Precision Bench Grinder, with Diamond Dresser	64.60
Multi-Purpose Machine, complete with Valve Refacer and Diamond Dresser	109.60
Valve Refacer Arm, Diamond Dresser, Guard, Tappet Attachment and Cutter Attachment	56.00
Diamond and Diamond Block	10.00
Precision Guard, left hand, straight Diamond Block	5.50

These machines are shipped direct from factory

Built to the Highest and Closest Standards

Blue-Point Multi-Flex

Many Tools Combined in One Unit

What Blue-Point Multi-Purpose machine does:

Chamfers end of valve stem.

Squares end of valve stem.

Turns down end of valve stem.

Reduces size of valve.

Reduces seat width of valve.

Faces all types and sizes of valves at any angle without additional equipment or special tools.

Grinds ends of Model A-Ford valves for tappet clearance.

Faces tappets.

Sharpens valve reseating cutters.

Removes carbon with wheel brush.

Polishes with rag buff wheel.

Does work accurate to .001".

Diamond Wheel Dresser, an important feature of this machine dresses both face and side of wheel without stopping motor.

Precision grinding.

Bench grinding.

Valve grinding.

Flexible Shaft Attachment is quickly adapted. Does everything that a flexible shaft machine should be able to do.



Multi-Flex Machine

FEATURING the Multi-Purpose machine described on opposite page, plus the addition of a flexible shaft attachment and a sturdy rollaway stand. It is a machine of a hundred uses, combining in one unit the various machines most useful to automotive maintenance and repair work. A ball bearing adaptor fastens to the right hand spindle to which is attached a six-foot Flexible Shaft with ball bearing hand piece enclosed in grease proof metal casing and an outer rubber covering. This Flexible Shaft has positively no vibration and does not "coil" or "pull" in your hand. It is the smoothest running machine we have ever seen.

Prices of Multi-Flex Equipment

Multi-Flex Machine—Valve Facer, Stand and Tool Pan, Flexible Shaft, Adaptor, Diamond Dresser, Tappet Attachment and Cutter Attachment.....

\$199.10

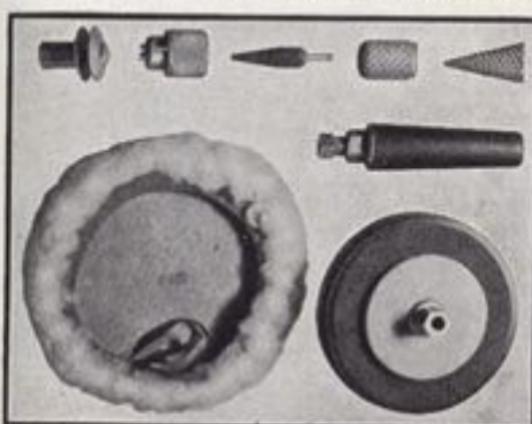
Stand and Tool Pan.....

19.50

Flexible Shaft and Adaptor.....

70.00

Flexible Shaft Attachments



Wheel Arbor	.....	\$1.50
5/8" Chuck	.....	6.50
Cone Emery Wheel and Mandrel	.....	2.00
Round Nose Rasp	.....	4.25
Pointed Nose Rasp	.....	4.25
Cone Sander Drum	.....	10.75
Sheepskin Buffer	.....	2.00
7" Flexible Sanding Disc and Combination Polisher	.....	11.75
7" Sanding Disc, 80 Grit	.....	.35
7" Sanding Disc, 36 Grit	.....	.40
Cone Sanding Sleeves, 80 Grit	.....	.20
Cone Sanding Sleeves, 36 Grit	.....	.25
Emery Wheel, 4" x 3/4", 5/8" Arbor Hole	.....	2.00

The Machine of a Hundred Uses

Universal Wheel Puller

With Interchangeable Collets for Practically all Cars and Trucks

Ask Snap-on
On salesman
or write for
list of collet
sizes and
adaptations
to cars and
trucks of all
makes and
models.



An easier, faster way to pull wheels—with this new, high grade tool. Nothing to assemble or adjust—no pinch bolts—no set screws—it's always ready for use. Good on practically all cars, both new and old models, including Model "T" Ford with threaded hubs; also many makes and models of trucks, including Models "TT" and "AA" Ford with threaded hubs. When you have the tool, all that is necessary is to select the required size or sizes of collets for your work. Each collet adapts the tool to many different makes and models. Collets are threaded on the inside to fit the various sizes of hub threads. All are of the same size on the outside and are split, with three specially designed heavy tapered threads which screw into the body of the tool and contract collet evenly on hub thread, thus eliminating all possibility of damage to hub thread in pulling.

After removing hub cap and axle nut you have only a light collet to spin on the hub thread. The puller is then quickly attached. A few hammer blows on screw handle bring off the tightest wheel. Tons of surplus strength in this tool.

No. 200—Universal Wheel Puller, forged throughout of high carbon steel, carefully heat treated, cadmium plated finish. (Without collets.) Each.....\$10.50
Collets—All sizes. Each.....\$2.50

Collet for Grooved Hubs

No. 279—Grooved Hub Collet. Designed for use with No. 200 Wheel Puller—services late models Studebaker Six, Commander and Dictator, also all types of Ford car and truck hubs not threaded. Each \$5.00

Strong metal case designed to hold Universal Wheel Puller and any required number of collets, up to 24.

No. 200-B—Metal case. Each.....\$2.00

Thrust Nuts to Protect Axle

5/8"-16, 3/4"-16, 7/8"-14, 1"-14, each 3/4" long. Ea.	\$0.40
Same sizes as above, 2" long. Each.....	.60
1 1/4"-12, 7/8" long. Each.....	.60
1 1/4"-12, 2 1/2" long. Each.....	.80



Only two things to do—screw collet on hub thread as shown, then attach puller and tool is ready.



Ask Salesman for Complete List of Collet Adaptations

Stud Bolt Type Wheel Puller

Greatest Advancement in Wheel Puller Design in Ten Years



Jaws
that
inter-
change
adapt
it to
all stud
bolt
circles

THIS tool fits all stud bolt type wheels in use today and is quickly adapted to any of them by inserting the jaws of required length and attaching the tool to the stud bolts. Special stud nuts are provided for use on Chevy and Ford trucks. The jaws slide to any position on the housing and pivot to any bolt circle diameter, the pull coming direct from the housing flange regardless of the angle of the jaws. A few blows on the drive handle will remove the tightest wheel without danger of injury to inner parts.

In addition to the complete set shown we can supply the following special sets:

W-4567	Complete Set, as shown. Fits cars and light trucks.	\$19.45
S-4567	Standard Set. Services majority of passenger cars.	13.75
F-4567	Ford Set. Passenger cars and truck models.	19.00
C-4567	Chevrolet Set. Truck models only.	14.95
B-4567	Buick and Packard Wheel Puller Set.	14.50
T-4567	Truck Set. Services light truck models.	16.45

Special Puller for Grooved Hubs



PULLS hub and wheel together—this tool goes inside the wheel and firmly grips the grooved hub. The complete assembly is then quickly pulled without removing the wheel from the hub. After hub is pulled, press outer end of jaws and the puller is instantly released. Ideal for all Fords since Model "T" and all 1932 and 1933 Studebaker except President.

No. 444 Grooved Hub Wheel Puller.
Each.....\$8.00

Special Purpose Wheel Pullers

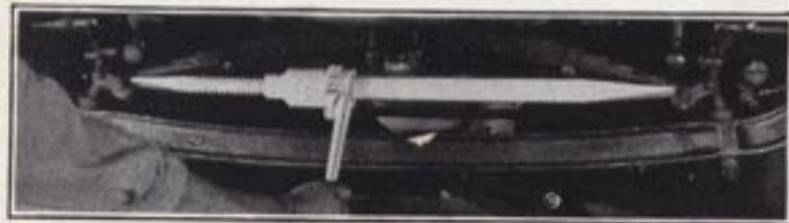
ALL sturdily built and efficient pullers for the specialized shop.

A	S-9564	Fits 6 Stud Bolt Circles on Chevy 6, 1929-'31, Plymouth 1931; Willys-Knight 98, 87, 6, 1931. Each.	\$ 3.90
No. 439	—	Fits two popular 6 Stud Bolt Circles. Each	8.00
No. 276	—	Fits Pierce Arrow wire 1931-'32, wood 1932, 836-1933; Studebaker President 1932. Each	\$ 6.00
No. 443	—	For two of the larger Stud Bolt Circles. Each	10.00
No. 440	—	Takes internally Threaded Hubs. Each	8.00
Nos. 230-232	—	For 3 3/4"-16 and 4"-16 thread hubs. Each	7.00
No. 442	—	Fits 4 stud bolt circle. Each	5.50
No. 441	—	Puller for 5 stud circle. Each	6.00
No. 433	—	Fits two popular 5 stud bolt circles. Each	7.00

Ask Salesman for Complete List of Wheel Puller Adaptations

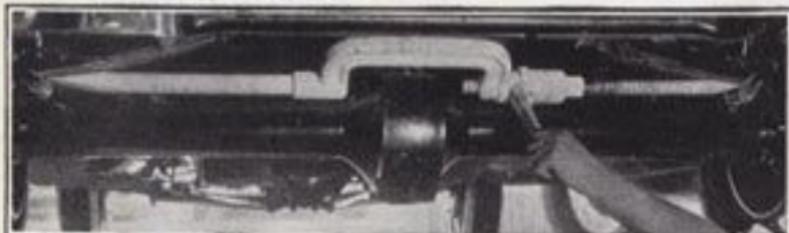
Ford Spring Spreader

1. Handles both front and rear springs—all models.
2. Simple in design and operation—easy to handle.
3. It's speedy—takes only one man's time.
4. Reverse action, ball-bearing ratchet works freely under any pressure.
5. New Locating Bushing provides guide for proper setting of tool—safeguards springs and spreader.
6. Pays for itself in two jobs.



Showing the tool as used on the front spring

One big feature of this tool is the ball bearing ratchet assembly which takes the thrust from both ends. No matter how much pressure is applied the ratcheting action always works freely. Reverse action is obtained by swinging the ratchet pawl from one side of the handle to the other.



Showing the tool as used on the rear spring, Model A

Raise the body of the car so that the weight is taken off the spring. Insert flattened end of Spreader under the spring shackle bolt eyelets and apply ratchet action until spring has spread enough to permit removing or inserting shackle bolts.



Showing the tool as used on V-8 rear spring

The rear spring on V-8 models is different to the rear spring on other models and the yoke is not needed when working on the V-8 rear spring. Instead, a long offset tube is used for this job.

S-9023 A Yoke.....	\$3.30	S-9023 F 17 $\frac{3}{4}$ " Straight Tube	\$0.75
S-9023 BC Ratchet Assembly	4.45	S-9023 DA Offset Screw.....	1.95
S-9023 D Straight Screw...	1.10	S-9023 S 33" Offset Tube...	2.00
S-9023 E 21" Straight Tube.	.85	S-9023 Q 28 $\frac{1}{2}$ " Offset Tube	1.70

S-9023—Ford Spring Spreader Complete.....\$17.10

Complete directions for use are included with each tool.

A Real Time Saver for Ford Shops

Tydeeman Pin Fitter

(For all small bearings)

THE fit of the pins can make the difference between a smooth running engine and a knocker and most pin troubles are due to the 25% or less bearing surface secured by old methods of enlarging holes of small diameter.

The Tydeeman Pin Fitter gives from 75% to 90% bearing surface at lower cost, without doubt the most accurate and economical tool of its kind on the market.

Cuts
Shop
Costs

This tool will pay for itself in a short while, it does a better job and costs less to operate than any tool on the market. The cost of the grinding sheets is cheaper than sharpening reamers. One pair of grinding sheets is guaranteed to fit twelve piston pins—five thousandths oversize, when used according to instructions. It cuts uniformly in cast iron, bronze and Iyanite and is also very efficient in hardened steel bushings.

Micrometer Adjustment

The distinct advantage of this tool over all other methods is its ability to take out as little or as much as desired. The micrometer adjustment lets you know just how much stock you are cutting away.



As used on Pistons

This is a real precision instrument and is held to extremely close tolerances. Every part is made of the very best material for the work required. All parts are guaranteed against defects in material or workmanship.

Prices on Pin Fitter

No. 1 Unit—Consists of No. 1 Body with following sets of blades and 7 sets of grinding sheets in case.	No. 2 Unit—Consists of No. 2 Body with following sets of blades and 7 sets of grinding sheets.
.735" to 1" 11/16" to 1"	1 1/8" to 1 1/2" 1 5/8" to 1 1/2"
15/16" to 1" 1" to 1 1/16"	1 1/4" to 1 1/2" 1 5/8" to 1 1/2"
13/16" to 1 1/16" 1 1/16" to 1 1/8"	1 1/4" to 1 1/2" 1 5/8" to 1 1/2"
No. 1 Unit—Complete in case	No. 2 Unit—Complete in case
\$27.50	\$39.50
No. 1 Body—With any one of above sets of blades.....	No. 2 Body—With any one of above sets of blades.....
Any set of No. 1 Blades, per set.....	Any set of No. 2 Blades, per set.....
..... \$3.50	..... \$4.50

1 1/8" to 1 1/2" 1 5/8" to 1 1/2"
 1 1/4" to 1 1/2" 1 5/8" to 1 1/2"

1 1/4" to 1 1/2" 1 5/8" to 1 1/2"
 No. 2 Unit—Complete in case

\$39.50

No. 2 Body—With any one of above sets of blades..... \$22.50

Any set of No. 2 Blades, per set..... \$4.50

Grinding Sheets

When ordering, specify whether Coarse or Fine is desired, also size No. 1 or 2 as shown below.

No. 1—.735" to 1 1/4", per dozen sets..... \$2.75

No. 2—1 1/8" to 1 1/2", per dozen sets..... \$3.00

Precision Shop Equipment Pays Big Dividends

Blue Point Hole Saws

HIGH-SPEED steel is used for these saws making them far superior to the ordinary hole saws which have been offered the trade. Saws can be unscrewed from the mandrel which will

accommodate all sizes of saws. It is possible therefore to use the one mandrel for the complete set of saws, but for efficient work it is advisable to

have each tool as a complete unit. The prices shown below for the saw and mandrel complete are lower than those asked elsewhere for lower quality units.

Saw and Mandrel

HS-32—1"	Diam. Saw.....	\$1.75
HS-36—1 1/8"	Diam. Saw.....	1.75
HS-40—1 1/4"	Diam. Saw.....	1.75
HS-48—1 1/2"	Diam. Saw.....	2.00

HS-31 Mandrel (includes 1/2" chuck and 3/4" drill).....
 Complete Set with four saws and one mandrel.....

Saws Only

HS-32A—1"	Diam. Saw.....	\$0.75
HS-36A—1 1/8"	Diam. Saw.....	.75
HS-40A—1 1/4"	Diam. Saw.....	.75
HS-48A—1 1/2"	Diam. Saw.....	1.00

\$1.00
 4.25

Abrasive Grinding Wheels

FULLY vitrified—an important feature because vitrified wheels will handle a greater variety of grinding operations than wheels made by any other method.

Grit refers to the size of grain in the abrasive. Blue-Point wheels are furnished in No. 60 fine and No. 36 coarse—the best "Grits" for general purpose garage work.

The wheels are all grade "M"—a grade that combines toughness with hardness and which has been found excellent for general use. All have a 1/2" bore or arbor hole.



No.	Diamet'r	Width	Grit	Price
6536	6"	1 1/2"	36	\$1.20
6560	6"	3/2"	60	1.20
6136	6"	1"	36	1.95
6160	6"	1"	60	1.95
4536	4"	1 1/2"	36	.85
4560	4"	3/2"	60	.85
4736	4"	5/8"	36	.95
4760	4"	5/8"	60	.95

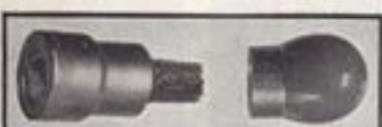
Blue-Point Carbon Scraper



A flexible wire carbon scraper designed to do a quick easy job and to give long and useful service. Blades made of highest quality oil tempered spring steel with flexibility controlled by a sliding ferrule.

CS-1—Flexible Wire Carbon Scraper. Each.....\$0.50

Battery Post Cleaner



CLEANS the Battery Post and Cable terminal without cutting the metal. Fits both positive and negative posts. Brush made of high grade wire to resist, as much as possible, corrosion from acid.

No. 59—Battery Post Cleaner. Each.....\$1.25
 No. 59A—Extra Terminal Brush. Each......50

Quality Units Required in Everyday Service

Blue-Point Wire Brushes

THE quality of material and workmanship built into this new line is the highest that modern methods can produce and the extremely long wearing characteristics of these units a triumph of manufacturing achievement. Blue-Point Wire Brushes will outlast any other similar tool on the market.

Made of high quality, selected wire and metal bound to prevent dangerous chips from flying loose—crimped wire bristles prevent bending or breaking.

Heavy Duty Wheel Brushes

The best quality, long life brushes, built for continuous heavy service in everyday work.

A-25—4" Diameter Brush.	Each	\$1.90
A-26—6" Diameter Brush.	Each	2.95
A-28—8" Diameter Brush.	Each	3.15
A-29—10" Diameter Brush.	Each	5.40
A-30—12" Diameter Brush.	Each	7.20

Standard Wheel Brushes

A good quality brush comparing most favorably with other makes of similar standards but not quite as strong and durable as the heavy duty brushes listed above.

A-32—4" Diameter Brush.	Each	\$1.35
A-33—6" Diameter Brush.	Each	1.95
A-34—8" Diameter Brush.	Each	2.15
A-35—10" Diameter Brush.	Each	2.70
A-36—12" Diameter Brush.	Each	3.60

Arbor Adaptor for Electric Drills

A-24—Special Arbor—Adapts Wheel Brush with $\frac{1}{2}$ " arbor hole to $\frac{1}{4}$ " Electric Drill Chucks, Length overall $2\frac{1}{2}$ ". Each... \$0.75



Heavy Duty Carbon Cleaning Brush

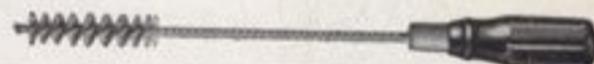
A-3—Fits $\frac{1}{4}$ " Electric Drill. Made of crimped, bright music wire—for cleaning carbon from cylinder heads, cylinder blocks and ports. Fast and easy to use. Each..... \$1.60

Standard Carbon Cleaning Brushes

Similar in design to the A-3 for use on flexible shaft for cleaning carbon around cylinder heads, etc.

A-1—With Straight Wire.	Each	\$0.70
A-2—With Crimped Wire.	Each	1.05

Valve Guide Hole Cleaners



No.	Size	Each	No.	Size	Each
AC-10	$\frac{1}{2}$ "	\$0.60	AC-18	$\frac{15}{16}$ "	\$0.60
AC-11	$1\frac{1}{2}$ "	.60	AC-19	$1\frac{1}{2}$ "	.60
AC-12	$2\frac{1}{2}$ "	.60			
Complete set of above five units.					\$3.00

General Use Hand Brush and Scraper



A-65—Refillable, all metal crimped wire hand brush, with scraper attachment. These tools will outlast several of the old-style wood handle brushes. Each... \$1.45

A-61—Crimped Wire Refill for A-65.	Each	\$0.40
A-62—Straight Wire Refill for A-65.	Each	.40
A-63—Scraper Blade only.	Each	.25

Wood Handle Wire Brush

A-58—Wire Brush.	Each	\$0.35
A good quality wood handle type of brush with bristles metal bound to prevent them coming loose and to give better service and durability. Built of sturdy material throughout and offering an inexpensive tool that compares favorably with other makes of its kind.		

Blue-Point Quality Will Save You Money—Try It

Blue-Point Valve Compressors

UNIVERSAL in its scope—this valve spring compressor will take more different cars than any other compressor on the market. It is fast and easy to use, with the handle in the most convenient place for working and a downward lever action that compresses the tightest springs with ease.



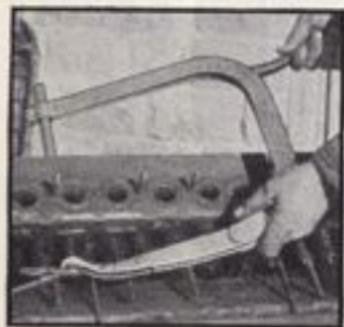
CF-1 Blue-Point Valve Spring Compressor	Each.....	\$6.25
Extra Jaws		
CF-20P. Pair	.....	\$1.00
CF-20L. Left	.....	.50
CF-20R. Right	.....	.50

Many Superior Features

1. Handle is placed out of way of hood and tie rods. Downward push with 8 to 1 leverage.
2. Note the loose ring attachment on bottom of frame—this ring can be slid to hold the tool locked in any required position.
3. Adjustment for valve stem length is easily secured. End of adjustable rod is fitted with a bellied footpiece with spring operating self adjusting centering point to obtain a firm grip upon all types of valve head surfaces.
4. The slim, strong adjustable jaws give most room to remove or replace the valve keys.
5. 12" "C" frame allows enough clearance to operate without removing manifolds, especially on motors having down draft carburetors.
6. Lift starts off center which easily breaks loose tight washers.
7. Lift is from lower arm which gives direct lifting power.

Works Well on Overhead Valves

Illustration at left shows this lifter being used on an overhead valve job. Because of this flexibility of use on a large majority of cars, the CF-1 Blue-Point Valve Spring Compressor has become one of the most practical lifters available today.



No. CF-11 Services Late Models

EXACTLY the same construction as the CF-1 except that the frame is 9 1/4" instead of 12" deep and the handle is higher on the frame to avoid the high fenders on the latest car models. Services the late '33 and '34 models without removing the manifold. With the manifolds removed it is the handiest and fastest lifter on the market. Can also be used on a large majority of older models, in fact all except those having wide manifolds.



Valve Compressor Sets

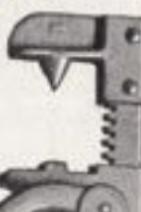
DESIGNED to work with the above lifters are the CF-2 Key Replacer and CF-3 Key Catcher shown on page 84. These tools save plenty of time on every valve job—preventing keys from dropping into the crank case and making it easy to replace them easily and quickly. For the sake of efficiency we recommend the purchase of complete valve tool sets.

CF-15 Set—Containing CF-1, CF-2, and CF-3.....	\$8.75
CF-25 Set—Containing CF-11, CF-2 and CF-3.....	\$8.50

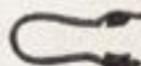
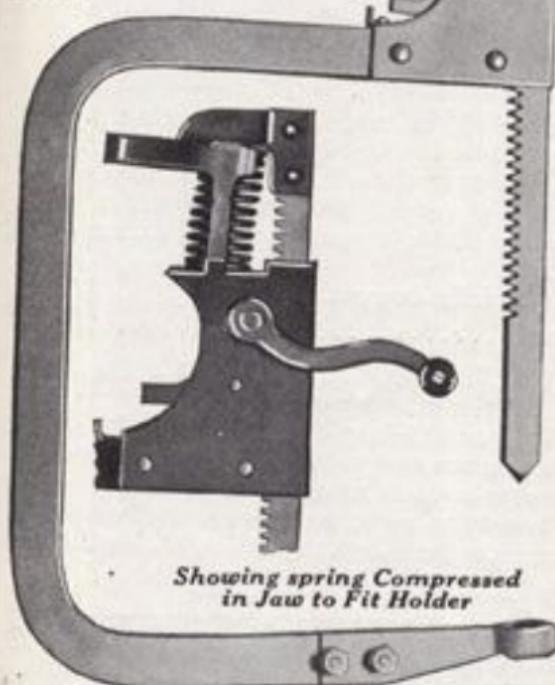
Built to Properly Service the Latest Types of Motors

Little Wonder Valve Tool

One of the best valve spring compressors ever designed. Strongly constructed—Easy to operate—Positive pinion and rack action—Automatic locking device—Locks at any position.



Satisfactory service and greatly improved design made this tool the popular unit it is today—Ask any mechanic who owns one or has seen it in operation.



Three Sizes of Spring Holders



One clip is shown clamped over spring after spring has been compressed and ready to be put back in motor.

Principal Features of the Little Wonder

1. Adaptability to practically all cars and trucks.
2. Positive vertical lift. Jaws cannot slip off spring.
3. Positive automatic lock—locks to any desired point.
4. Handle fitted with ratcheting device to clear obstructions.
5. Jaws exceptionally thin. When it is impossible to get under spring, jaws will fit into

any coil so that springs can be compressed and valve pin removed.

6. Compressing feature when you are ready to put spring back in motor.
7. Lifter large enough to clear exhaust manifold so that you can get to all springs without having to remove manifold, etc.

LW-200—Little Wonder, complete with Straight Jaws and three Spring Holders. Each \$6.50

LW-630-P—Straight Jaws. Pair 1.00

LW-640-P—Offset Jaws. Pair 1.00

LW-650-P—Special Offset Jaws. Pair 1.25

LW-660-P—Cadillac or Lincoln Jaws. Pair 1.25

LW-670-P—Jaws for Plymouth, Dodge, Chrysler and Waukesha Motors. Pair 1.25

LW-4—Set of 3 extra Spring Holders. 1.25

LW-5—Blank Spring Holders. Each50

LW-300—Special Little Wonder for Trucks. 7.50

Many Big Improvements in the 1934 Model Little Wonder

Blue-Point Hand Valve Lifter

EVERY mechanic needs a good hand valve lifter in his kit, and this tool is offered as the best all round lifter we have yet seen.

1. Short enough to get in between fenders and valves—9½" overall length.
2. Lower hand lift avoids manifolds.



3. Adjustable lifting range—1½" is low, 1¾" is medium and 2" is high adjustment hole. (The average car starts the lift at 1", Chrysler 8 requires 1¼" to start the lift.)
4. New design is reinforced to stand 350 lbs. pressure on the jaws.
5. Works well on new Airflow DeSoto and Chrysler, Oldsmobile and other late model cars.
6. Locks automatically when fully compressed.

CF5—Valve Lifter. Each.....\$1.65

Blue-Point Valve Key Replacer

REPLACES all Valve Keys and "Horse-Shoe" Locks. The trim steel jaws put the keys into the tightest places. No more need for stuffing rags or losing keys in crankcase. The Replacing Jaws turn right or left on the handle to *CF-2 Blue-Point Valve Key Replacer* replace the Keys under any Valve Lifter.



Place the Keys in the jaws with sliding blade in forward position as illustrated—push the jaws against the valve stem sliding the blade back and leaving the Keys clamped around the stem. The tool holds them there until the spring collar is lowered.

CF-2 Blue-Point Valve Key Replacer. Each.....\$1.25

Blue-Point Valve Key Catcher

This universal tool slips in all around and locks tightly behind the Valve Spring Collar.

The high gates receive the Valve Keys and deliver them to your hand. It works on practically all motors and saves the time of "ragging up the motor," and hunting lost keys in the crankcase, saves new gaskets, and extra labor of removing the pan. One job pays for the tool.

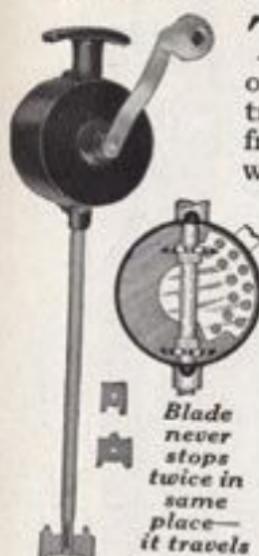


CF-3 Blue-Point
Valve Key Catcher

CF-3 Blue-Point Valve Key Catcher. Each.....\$1.25

Tool Users Appreciate Our Specialized Service

Blue-Point Valve Grinder



THE sturdiest and smoothest operating tool of its kind. Pinion gears milled from solid bars of high carbon alloy tool steel, carefully heat treated and hardened. Large gear stamped from $\frac{1}{8}$ " steel properly hardened to withstand wear. Shaft made from cold rolled steel—ball bearing thrust.

The blade turns forward and backward in rapid oscillating motion and advances $\frac{1}{6}$ th revolution for each single revolution of the crank. A real tool that will stand up in shop use and last indefinitely.

VG-1—Valve Grinder, with one stem as illustrated. Each..... \$2.75

VG-2—Valve Grinder, with two stems, one long, one short. Each..... \$3.00

Ford Valve Suction Cup



S-9051—Holds valve properly for final grinding-in process. Fits shaft of Blue-Point Valve Grinder. Made of the very highest grade rubber. Each..... 10c

Air Valve Lapper

LIGHT—fast—durable, and smooth. Its very simplicity of operation and small number of parts assures an efficient working machine at all times.

Any speed from zero to two or three thousand strokes per minute is instantly controlled by applying or releasing downward pressure against the valve.

QUICK: Its high speed allows using fine grinding compound and yet finish the job in about one-half the usual time. Two thousand strokes per minute is a normal speed for this tool.

SMOOTH: It grinds smoothly with absolutely no danger of marring the valve, providing a smooth seat that cannot be improved by hand and screw driver method.

VL-40—Air Lapper Tool only..... \$15.00

VL-41 Air Hose and Air Chuck Clamp Attachment..... \$2.00

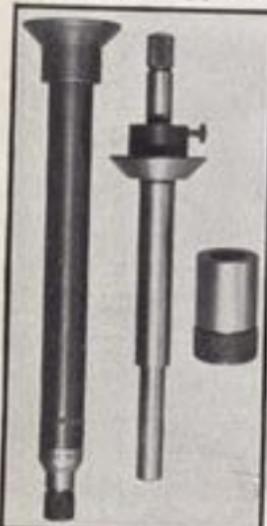
VL-46 Air Lapper, complete with Hose and Clamp..... \$17.00



Micrometer Gauge for Ford Valves

QUICK, accurate and easy to use. Kinks and buckles form in a feeler gauge and prevent getting the correct clearance, but this micrometer gauge is accurate to a fraction of a thousandth. Micrometer setting is graduated in .001 of an inch. No more guesswork—no thickness gauge required—does the job in half the usual time required. All parts of this tool are machined to precision standard and complete directions for its use are enclosed with each tool. Every Ford shop can save time and turn out better valve jobs by using this special gauge.

MG-1—Ford Valve Micrometer Gauge complete..... \$4.50



Blue-Point Ring Compressor

THE Blue-Point Ring Compressor shown here is meeting with approval of mechanics everywhere.

It is furnished with two bands which are made of Clock Spring Steel, insuring long life and perfect shape. Each band has four adjustments which make it possible to handle pistons from $2\frac{5}{8}$ " to 4" in size. The extra long handles give greater ease in handling and with this compressor pistons can be inserted as easily from below as above. The tool is also ideal for handling the Hyatt roller bearings.

RC-15—Complete as shown with RC-15A and RC-15B Bands. Each..... \$1.50

RC-1—Extra Handles..... \$0.90

RC-15A—Small Band (for pistons $2\frac{5}{8}$ " to $3\frac{1}{4}$ ")..... .50

RC-15B—Large Band (for pistons $3\frac{1}{4}$ " to 4")..... .60

RC-15C—Truck Band (for pistons 4" to 5")..... \$0.70

RC-15D—Tractor Band (for pistons 5" to 6")..... \$0.80

RC-15E—Tractor Band (for pistons 6" to 7")..... \$0.90

RC-15F—Extra Clip..... .15



RC-25 Ring Compressor

A strong, low priced tool featuring the following points.

1. Covers all sizes in the passenger car range.
2. Can be used from below on all car models.
3. Is convenient to use, simple and strong in construction.
4. The center band is compressed by turning the slotted arm with the detachable Tee Handle.

RC-25—Piston Ring Compressor. Each..... \$0.85

No. 201—Extra Compression Band..... .20

No. 202—Extra Tension Band..... .15

Blue-Point Files

Built to
the
Blue-
Point
standard of quality.

Mill	Round	Half Round
Bastard	Bastard	Length Each
Length Each	Length Each	Length Each
6".... \$0.20	6".... \$0.20	6".... \$0.35
8".... .25	8".... .25	8".... .50
10".... .35	10".... .35	10".... .70
12".... .45	12".... .45	12".... .95
14".... .65	14".... .65	14".... 1.50
16".... .75		

Tungsten Ignition Point File

Double cut tungsten file, the type preferred by most mechanics for filing ignition points. $6\frac{1}{4}$ " long. Each..... 15c

Blue-Point Thread Restorer

Eight U. S. S. and S. A. E. thread sizes on each tool: 11, 12,

13, 14, 16, 18, 20, and 24 threads to the inch. A few strokes across battered threads produces a true new thread—nut will then go on easily.

No. 1124 Thread Restorer—8" long. Each..... \$1.50

A Satisfied Customer Is Our Best Recommendation



A-31-H
15c



A-31-J
15c



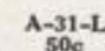
A-31-K
15c



A-31-E
25c



A-31-F
25c



A-31-L
50c



Door Hinge Pin Tools

Single Screw Type

A TIME and labor saving device for removing those door hinge pins that have become stuck or rusted in the hinge. This tool eliminates the danger of damaging the adjacent body surface always present when using a hammer and punch for the job.

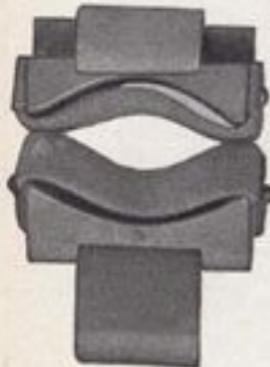
Three sizes of Pilots are provided to take different sized pins for breaking loose extra tight pins. Two adaptors are also included for obtaining reverse action where there is not room enough to use the tool in the regular manner. A hole is drilled through the housing to enable the operator to see that the tool is lined up properly with the pin. In some cases the door should be raised slightly in order to obtain proper alignment.

A-31-A—Door Hinge Pin Tool. Each \$2.65
 Prices of individual parts shown with tool.

Double Screw Type

BEFORE using the tool, lower the screw A31-B so that the drill rod pin is $1\frac{1}{2}$ " below the end surface of screw A31-C, which is countersunk, leaving a small recess for the hinge pin to rest in. This will line up the tool true and properly with the hole in the hinge. Place the tool on the job and tighten screw A31-C against the hinge. Screw A31-B should now be tightened until the pin is removed through the end of tool. Where there is not enough room to use the long screw, use the two adaptors and reverse position of the tool. A hole is drilled through the housing to enable the mechanic to see that the tool is properly in place before applying screw action. On jobs where the pin is worn making the hinge line up slightly off center, the door should be raised slightly in order to line up the tool with the pin.

A-31 Door Hinge Pin Tool. Each... \$2.65
 Prices of individual parts shown with tool.

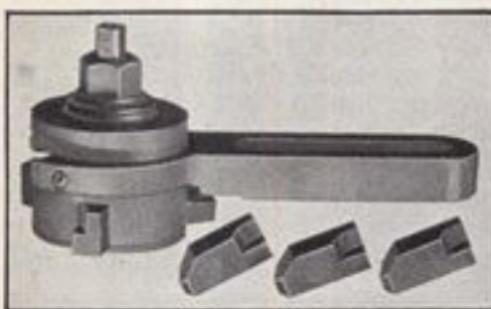


Special Vise Jaws

HOLD circular objects such as pistons, etc., without danger of damaging the surface of the object. They have a semi-circular gripping surface, covered with a fabric strap, and are placed in the regular jaws of the vise—a shaped, hinged section holding them in place. Just lay them on or lift them off—no screws or bolts. Much safer and better than wooden blocks, etc.

A-40—Vise Jaws. Per Pair..... \$1.95

Cylinder Ridge Remover



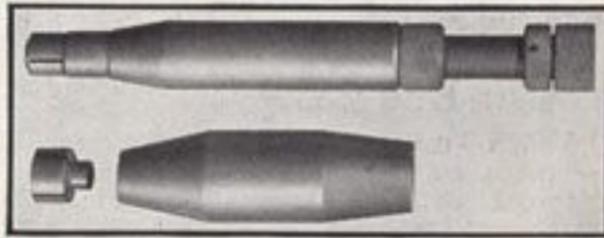
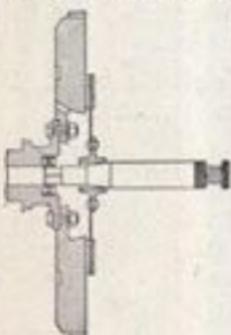
AN expanding type tool for removing the ridge at the top of cylinder wall. Three expanding cutters act as self-centering agents and are so shaped that the top portion only of each blade acts as a cutter and the bottom section as a guide to prevent chattering or removing too much metal. Two sets of cutters are provided, the smaller ones having a range from $2\frac{1}{4}$ " to $3\frac{1}{6}$ " and the larger blades from $3\frac{1}{2}$ " to $4\frac{1}{8}$ ".

This tool will accurately remove

ridges worn deeper on one side than on the other unless the wall taper exceeds .005 which sometimes occurs in cylinders that have been reamed or reground. The clamp is bolted onto the cylinder block opposite the most pronounced part of the ridge. It covers a full range in one tool and does a better job quicker and easier.

WR-15 Cylinder Ridge Remover. Each..... \$7.50

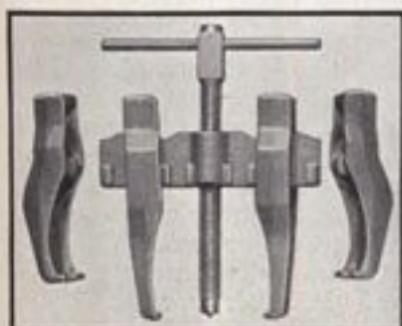
Clutch Aligning Tool



FOR lining up the driven disc before bolting the compressor to the flywheel. The expanding Pilot is slipped into the transmission shaft bearing and tightened by means of an adjusting screw. The adjustable tapered sleeve centers the driven disc and holds it securely in place while the compressor is being bolted in place. This tool is guaranteed against defective material or workmanship but not against wear.

A-37—Clutch Aligner.	With Passenger size sleeve, Pilots extra.....	\$4.95
A-37-T—Clutch Aligner.	With Truck size sleeve. Pilots extra.....	5.15
A-37-9—.625 Expanding Pilot.	Each.....	.25
A-37-10—.750 Expanding Pilot.	Each.....	.25
A-37-11—.590 Expanding Pilot.	Each.....	.25
A-37-12—.668 Expanding Pilot.	Each.....	.25
A-37-13—.787 Expanding Pilot.	Each.....	.25
A-37-14—.984 Expanding Pilot.	Each.....	.30
A-37-17—1.181 Expanding Pilot.	Each.....	.30
A-37-2—Sliding Sleeve. Passenger car size.	Each.....	1.60
A-37-6—Sliding Sleeve. Truck size.	Each.....	1.80

Gear Puller for Small Jobs



HANDLES inside and outside pulling work on generator gears and other light-pulling jobs, simply by reversing jaws. Bent jaws can be used to fit over cap screws when gear is tapped. It's a dandy tool for those small jobs and one that every repair shop can put to good use.

CG-12-1—Screw Handle.	Each.....	\$0.75
CG-12-2—2-Way Yoke.	Each.....	1.00
CG-12-3—Bent Jaws.	Each.....	.50
CG-12-4—Straight Jaw.	Each.....	.50
CG-12 Gear Puller. Complete.....		3.75

Blue-Point Gear Pullers

Showing the
Three-Way
Hook-Up



Adjusting the Puller

This puller is most efficient when properly adjusted to take a steady strain. Slightly tap Pressure Screw on head before starting a direct pull to adjust the tool properly and help release the gear.

Complete Set No. G-40

Contains 17 units, providing both 2-way and 3-way hookups as shown by the illustrations, and covering an almost universal range of service uses in general garage repair work. Phantom view shows how all three types of hooks can be used on the 2-way Yoke.

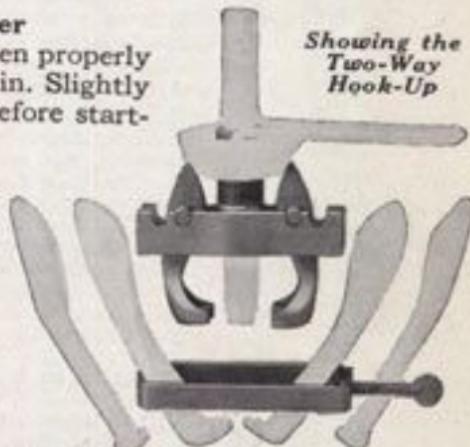
Set Contains

The complete G-40 Gear Puller Set contains Pressure Screw, Lock Nut and Wire Wrench, 2-way Yoke, 3-way Yoke, Retention Clamp, 3 Anvil Pilots, 3 Rim Hooks, 3 Rim Hooks and 2 Claw Hooks.

No. G-40 Blue-Point Gear Puller Set..... \$12.25



Showing the
Two-Way
Hook-Up



Gear Puller Parts

Any part may be replaced at the unit price given. Made of electric furnace tool steel, carefully heat-treated. Every part accurately made in order to produce tools of precision and great strength.

No.	Description	Each
10-1G	Pressure Screw	\$1.00
10-2G	2-Way Yoke	2.15
10-3G	3-Way Yoke	2.25
10-4G	Adjusting Nut	1.40
10-5	Rim Hook	.65
10-6	Button Hook	.60
10-7	Claw Hook	.65
10-8	Retention Band	.65
10-9	$\frac{3}{8}$ " Anvil Pilot	.20
10-10	$\frac{1}{2}$ " Anvil Pilot	.25
10-11	1 Anvil Pilot	.30
10-12	Wire Wrench	.25

Built to Service the Toughest Gear Pulling Jobs

Universal Puller Tool

Booster Hammer Principle

1. Booster Hammer gives a sudden, powerful blow, guided by the slide shaft in the same direction as the pull.
2. The guided blow combined with the center screw tension is much more effective than any other pulling force.

3. The pulling force is distributed equally on all sides—an important point as an uneven pull causes the part being pulled to bind.

Combination 2 and 3-Way Yoke

1. A big new improvement in gear-puller design.
2. Eliminates the necessity of changing yokes on the shaft.
3. Saves time by having the tool always ready for use.

The 2-Way Throw is used with the Small Jaws for internal pulling jobs, sprockets, generator work, etc. The large jaws can be used on this throw for heavy work or where the three-way throw cannot be used.

The 3-Way Throw is used with the large jaws for Fan Hubs, pulleys and other external pulling jobs.

The Adjusting Nut and Spring hold the jaws at the desired position for attachment to the job and locks the jaws in against the part being pulled.

The Spreader Disc fits on the end of the shaft to spread the jaws for internal pulling work.

Rapid Change Yoke Pins

A new type of yoke pin having a spring-backed locking ball at each end. Push them in or out—No nuts to unscrew or cotter pins to bother with.

Important Features

1. Simplicity of design—Easy and quick to use.
2. Shocking blow is in the direction of the work and not against the work.
3. Operator centers the blow, avoids possibility of binding.
4. Combination Yoke saves time—always ready for use.
5. New Yoke Pins save time on every change of jaws.
6. Spring retainer holds jaws open at any desired point.
7. Takes such jobs as the following:
 - (a) Sleeves of all types using roller bearings.
 - (b) Frozen Axle or Pinion Shafts.
 - (c) Generator Starter Bearings and Gears.
 - (d) Fan Hubs and Pulleys, Timing Gears.
 - (e) Grease Retainers and Spring Hangers.
 - (f) Many Bushings, Bearings, Universal Joint Flanges, Pitman Arms, etc.
 - (g) Bearings recessed in tubular members.
 - (h) Can be used as Valve Guide Extractor and many other pulling jobs.

Universal Puller Tool Parts

Number	Description	Each
66-1	Puller Screw . . .	\$2.00
66-2	Booster Hammer . . .	2.90
66-3	Combination Yoke . . .	3.25
66-5	Large Jaws (External Pulling) . . .	1.35
66-6	Small Jaws (Internal Pulling) . . .	1.30
66-7A	Adjusting Nut . . .	1.40
66-8	Spreader Disc . . .	.50
66-9	Yoke Pin . . .	.15
66-10	Centering Adaptor . . .	.25
66-11	Spring Retainer . . .	.15
10-F	Bar Handle . . .	.30

Complete CJ-66 Set—16 Parts

Containing Screw, Hammer, Yoke, 3 Large Jaws, 2 Small Jaws, Adj., Screw, Disc, Spring, 3 Yoke Pins, Centering Adaptor and Bar Handle. \$15.00

Universal—It Services All Kinds of Gear Pulling Jobs

Bearing Race Remover

BUILT solidly and compactly for removing tight bearing races of all kinds. Booster Hammer principle gives a powerful blow in the same direction as the pull.

Made in two sizes BR-15 for passenger cars and with a gripping range of $1\frac{1}{4}$ " to 3"; and BR-16 for trucks and busses with gripping range from $2\frac{1}{8}$ " to 5". Gripping unit has three fingers with flange that grips as they are expanded behind the bearing race, even when the race is flush with the housing.

BR-15 Tool. Complete \$ 7.45
BR-16 Tool. Complete 12.50

Individual Parts Prices

Description of parts for	BR-15	BR-16
Shaft	BR-15-A	\$0.95
Body	BR-15-B	1.00
Fingers (set of 3)	BR-15-C	2.55
Hammer	BR-15-D	.95
Small Exp. Plug	BR-15-E	.45
Large Exp. Plug	BR-15-EE	.90
Spring	BR-15-F	.25
Finger Pins (set of 3)	BR-15-G	.30
Key for Plugs	BR-15-H	.10



Axle Pulling Adaptors

A COMPLETE range of Axle Adaptors for use with the BR-15 Bearing Race Puller. Unscrew the Gripping unit from the end of the shaft and replace with the required axle adaptor. BR-900 Set of Axle Adaptors \$5.70

Individual Prices on Axle Adaptors

BR-2018 $5\frac{1}{8}$ " 18	.....	\$0.55	BR-2814 $7\frac{1}{8}$ " 14	.....	\$0.65
BR-2416 $5\frac{1}{8}$ " 16	.....	.55	BR-3214 $1\frac{1}{8}$ " 14	.....	.70
BR-2420 $5\frac{1}{8}$ " 20	.....	.55	BR-3612 $1\frac{1}{8}$ " 12	.....	.70
BR-2616 $15\frac{1}{8}$ " 16	.....	.60	BR-4012 $1\frac{1}{4}$ " 12	.....	.75
BR-2818 $5\frac{1}{8}$ " 18	.....	.65			

Axle Pulling Attachment

TAKES all sizes—is quick and easy to use. Used with the BR-15 Bearing Race Puller and is screwed onto end of shaft in place of the regular gripping unit. The three fingers give a tight grip against the axle nut and a few blows of the booster hammer will pull the axle.



BR-9 Universal Axle Pulling Attachment \$4.75

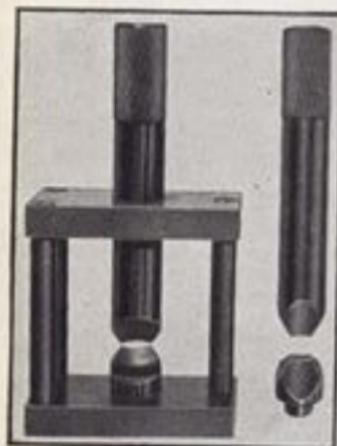
Complete with BR-15-A Shaft and BR-15-D Hammer \$6.65



Axle Bearing Remover

REMOVES bearings from axles of Chrysler, Dodge, Plymouth, De Soto, Chevrolet, and any other car where two bearings are placed tightly together. The knife edged anvil and swedge are used to start forcing the bearings apart and the other three sizes used for completing the job. Each anvil and swedge has two sizes. The tool is made from the very finest tool steel heat treated to withstand wear and tear, but due to the nature of its work it cannot be guaranteed.

BR-35 Axle Bearing Remover. Complete	.....	\$9.75
BR-35-1 Hand Swedge (Knife edge and $\frac{3}{4}$"). Each	.....	1.85
BR-35-2 Hand Swedge ($\frac{1}{2}$" and $\frac{3}{2}$"). Each	.....	1.85
BR-35-3 Anvil (Knife edge and $\frac{3}{4}$"). Each	.....	.95
BR-35-4 Anvil ($\frac{1}{2}$" and $\frac{3}{2}$"). Each	.....	.95



Tools Like These Mean Increased Profits

Vacuum Grip Bolt Cutters



Center Cut



Diagonal Cut



Side Cut



End Cut

CUTTING power exceeds that of any other bolt cutter on the market—the result of several exclusive features. First—the *improved compound lever* principle, putting irresistible power into the blades. Second—blades are hammer-forged from electric furnace high carbon Molybdenum alloy steel—the toughest, *most durable* tool steel ever produced. Third—the handles are also *hammer-forged* from *alloy tool steel*, they will not bend or snap.

Blades are hand filed and *perfectly aligned*, they are interchangeable and are *assembled as a unit ready to insert into handles*.

Note: Specially heat-treated center cut type blades for cutting hardened materials can be furnished, on special order, at slightly higher cost.

14" Bolt Cutter— $\frac{5}{16}$ " Cutting Capacity

114	Complete with side cut blades.	\$4.00
114-H	Handles only.	2.40
114-S.B.	Side Cut Blades only.	1.60
114-C.B.	Center Cut Blades only.	1.85
114-E.B.	End Cut Blades only.	2.00
114-D.B.	Diagonal Cut Blades only.	2.00

18" Bolt Cutter— $\frac{3}{8}$ " Cutting Capacity

118	Complete with side cut blades.	\$5.00
118-H	Handles only.	3.00
118-S.B.	Side Cut Blades only.	2.00
118-C.B.	Center Cut Blades only.	2.25
118-E.B.	End Cut Blades only.	2.50
118-D.B.	Diagonal Cut Blades only.	2.50

24" Bolt Cutter— $\frac{1}{2}$ " Cutting Capacity

124	Complete with side cut blades.	\$6.50
124-H	Handles only.	4.00
124-S.B.	Side Cut Blades only.	2.50
124-C.B.	Center Cut Blades only.	2.75
124-E.B.	End Cut Blades only.	3.00
124-D.B.	Diagonal Cut Blades only.	3.00

36" Bolt Cutter— $\frac{5}{8}$ " Cutting Capacity

136-C	With Center Cut Blades.	\$9.00
136-H	Handles only.	5.50
136-C.B.	Center Cut Blades only.	3.50

Nut Splitter Blades

FOR use with the No. 114-H and No. 118-H Handles. Speeds up many jobs such as stripping off old fenders, etc. The 114 size take $\frac{1}{4}$ " and the 118 size $\frac{5}{16}$ " to $\frac{3}{8}$ " bolt nuts.

No. 114-CNSB—Center Cut Type.	\$1.60
No. 114-ENSB—End Cut Type.	2.00
No. 118-CNSB—Center Cut Type.	2.00
No. 118-ENSB—End Cut Type.	2.50

Special Replacement Blades

TO provide customers a service on replacement blades to fit popular makes of bolt cutters, we offer the following sizes and types. They are furnished complete as one unit ready for insertion into the handle.

No. 218-CB—18" Center Cut Type.	\$2.25
No. 218-SB—18" Side Cut Type.	2.00
No. 224-CB—24" Center Cut Type.	2.75
No. 224-SB—24" Side Cut Type.	2.50

$2\frac{1}{16}$ " between bolt hole centers on 24" size.

No. 230-CB—30" Center Cut Type.	3.50
$\frac{1}{8}$ " bolt hole, $2\frac{1}{16}$ " between bolt hole centers.	
No. 236-CB—36" Center Cut Type.	3.50

$\frac{1}{8}$ " bolt hole, $2\frac{1}{16}$ " between bolt hole centers.

Rubber Cushion handle stops. Nos. 214-R, 218-R, 224-R, 236-R. Each. \$0.05

Pins for holding Rubber Stops. Nos. 214-P, 218-P, 224-P, 236-P. Each. .05

They Cannot Build a Better Bolt Cutter

B. P. Valve Reseating Tools

Inexpensive Interchangeable Pilots

THESE improved valve seat reamers are an actual necessity in all shops. Interchangeable pilots are screwed into a master handle, thereby saving the cost of separate and expensive pilots.

The cutting blades are made of high grade steel, run through special heat treating process to produce extreme hardness, capable of cutting very hard or glazed surfaces. They do an excellent job and cost half what the same size set of solid units would cost.

Z-2100 Set

Containing one each of the following tools, packed in metal case as illustrated. \$17.50

Contents of Set

No.	Pilots	Each	No.	Cutters	Each
Z-200	5/16"	\$.25	Z-4830	1 1/2" 30°	\$1.75
Z-201	5/16" plus .001	.25	Z-4845	1 1/2" 45°	1.75
Z-202	5/16" plus .002	.25	Z-4860	1 1/2" 60°	1.75
Z-203	5/16" plus .003	.25	Z-6430	2" 30°	1.75
Z-210	1 1/4"	.25	Z-6445	2" 45°	1.75
Z-220	1 1/4"	.25	Z-6460	2" 60°	1.75
Z-240	1 1/4"	.25	Z-8045	2 1/2" 45°	1.75
Z-241	1 1/4" plus .001	.25	Z-21 Tee Handle		.50
Z-242	1 1/4" plus .002	.25	ZV-8 Ford		
Z-250	1 1/4"	.25	Bushing		.50
Z-280	1 1/4"	.25	ZB-2100 Metal		
Z-380	1 1/2"	.25	Case		1.25

Phantom view shows how pilots and cutters attach to tapered handle shank.



These reseaters will last indefinitely. Blades can be resharpened or replaced at a nominal cost, making them very inexpensive to use.

Additional Units Not in Set

Inserted Type Cutters

No.	Cutters	Price
Z-5245	1 1/8" 45°	\$1.75
Z-5645	1 1/8" 45°	1.75
Z-6045	1 1/8" 45°	1.75
Z-6830	2 1/2" 30°	1.75
Z-6845	2 1/2" 45°	1.75
Z-8030	2 1/2" 30°	1.75
Z-360	1 1/2" Pilot	.55
Z-22	6" Handle	.75

Solid Type Cutters

No.	Cutters	Price
Z-4815	1 1/2" 15°	\$3.00
Z-5015	1 1/2" 15°	3.00
Z-5615	1 1/4" 15°	3.00
Z-6015	1 1/8" 15°	3.00
Z-6415	2" 15°	3.00
Z-8015	2 1/2" 15°	3.00
Z-6815	2 1/2" 15°	3.00

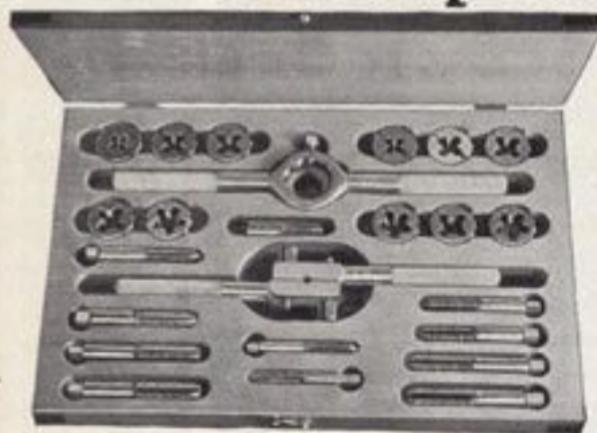


Seven blades set at the proper angle and irregularly spaced to give a smooth, shearing cut and prevent chattering.



These cutters are adaptable to all No. 2 Standard tapered pilots on the market. Use them to bring your reseating outfit up to date.

Built to Provide Efficiency, Quality and Economy

Blue-Point Tap and Die Sets

over or under. Contains eleven taps and eleven dies covering a range in S.A.E. and U.S.S. threads $\frac{1}{4}''$ to $\frac{1}{2}''$, also a $\frac{1}{8}''$ pipe size. Chrome plated Die Stock and adjustable Tap Wrench.

TD-2400 Set

Containing one each of the following units, neatly packed in a solid mahogany box. \$8.75

Contents of Set

TD-1	Die Stock	.....	\$1.15	T-100	$\frac{1}{4}''$ x 20 Tap U.S.S.	.....	\$0.30
TD-2	Tap Wrench	.....	.75	T-101	$\frac{1}{4}''$ x 18 Tap U.S.S.	.....	.30
D-010	$\frac{1}{4}''$ x 20 Die U.S.S.	.....	.40	T-102	$\frac{1}{4}''$ x 16 Tap U.S.S.	.....	.30
D-011	$\frac{1}{4}''$ x 18 Die U.S.S.	.....	.40	T-103	$\frac{1}{4}''$ x 14 Tap U.S.S.	.....	.30
D-012	$\frac{1}{4}''$ x 16 Die U.S.S.	.....	.40	T-104	$\frac{1}{4}''$ x 13 Tap U.S.S.	.....	.30
D-013	$\frac{1}{4}''$ x 14 Die U.S.S.	.....	.40	T-105	$\frac{1}{4}''$ x 28 Tap S.A.E.	.....	.30
D-014	$\frac{1}{4}''$ x 13 Die U.S.S.	.....	.40	T-106	$\frac{1}{4}''$ x 24 Tap S.A.E.	.....	.30
D-015	$\frac{1}{4}''$ x 28 Die S.A.E.	.....	.40	T-107	$\frac{1}{4}''$ x 24 Tap S.A.E.	.....	.30
D-016	$\frac{1}{4}''$ x 24 Die S.A.E.	.....	.40	T-108	$\frac{1}{4}''$ x 20 Tap S.A.E.	.....	.30
D-017	$\frac{1}{4}''$ x 24 Die S.A.E.	.....	.40	T-109	$\frac{1}{4}''$ x 20 Tap S.A.E.	.....	.30
D-018	$\frac{1}{4}''$ x 20 Die S.A.E.	.....	.40	T-110	$\frac{1}{8}''$ Pipe Tap	.....	.30
D-019	$\frac{1}{4}''$ x 20 Die S.A.E.	.....	.40	D-020	$\frac{1}{8}''$ Pipe Die	.....	.40

TD-2500 Junior Set

INCLUDING six Taps and six Dies with a chrome plated Die Stock and Adjustable Tap Wrench. Sizes carefully selected to give the most popular small sizes. Die is adjustable for tight or loose fit same as the larger size shown above.

TD-2500 Junior Tap and Die Set. Containing one each of the following items in wood case. \$4.95



T-111	Tap 4 x 36	.....	\$0.20	D-021	Die 4 x 36	.....	\$0.30
T-112	Tap 6 x 32	.....	.15	D-022	Die 6 x 32	.....	.30
T-113	Tap 8 x 32	.....	.15	D-023	Die 8 x 32	.....	.30
T-114	Tap 10 x 24	.....	.15	D-024	Die 10 x 24	.....	.30
T-115	Tap 10 x 32	.....	.15	D-025	Die 10 x 32	.....	.30
T-116	Tap 12 x 24	.....	.15	D-026	Die 12 x 24	.....	.30

TD-3—Junior Die Stock

TD-4—Junior Tap Wrench

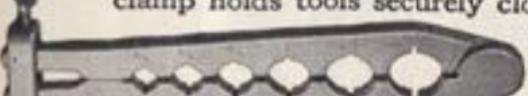
\$1.00

.65

Axle Rethreading Tool

SIX of the most generally used sizes in one handy tool. Can be clamped around that part of axle where thread is in good condition and worked over the damaged part. End clamp holds tools securely closed. Takes sizes $\frac{5}{8}''$, $\frac{3}{4}''$, $\frac{7}{8}''$, 1", $1\frac{1}{8}''$ and $1\frac{1}{4}''$.

A-53 Axle Rethreader. Each \$6.00

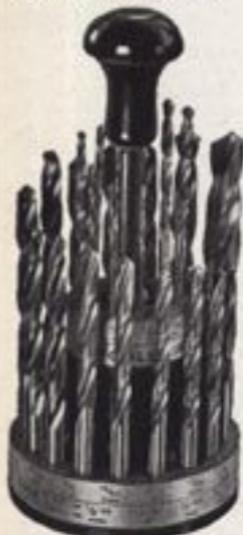


You Can Buy a Bigger But Not a Better Set

Blue-Point High Speed Drills

THESE drills are not single purpose drills for special work but are constructed so as to show the best all-round performance in all classes of work. They are, therefore, ideal for garages, small machine shops, jobbing shops, etc.

All Blue-Point drills are inspected for hardness immediately after heat treatment and also after the finishing operation. They must show cutting ability as well as the ability to remove chips in deep hole drilling. An important feature is the finish of the flutes, this finish being very smooth which materially helps in removing chips. Naturally, we cannot guarantee drills against breakage or wear.



Size	Price	Size	Price
1/16"	\$0.20	19/64"	\$0.55
5/64"	.20	5/32"	.60
3/32"	.20	11/64"	.65
7/64"	.20	23/64"	.70
1/8"	.20	3/8"	.75
5/64"	.25	25/64"	.80
11/32"	.25	13/32"	.90
3/16"	.30	27/64"	.95
15/64"	.30	7/16"	1.05
7/32"	.35	29/64"	1.10
15/32"	.40	11/16"	1.20
1/4"	.40	31/64"	1.25
17/64"	.45	13/8"	1.35
9/32"	.50	7/2"	1.40

Drill Holder and Gauge

CONVENIENT to use both as a handy means of holding your drill equipment and as a gauge for quickly finding the particular size drill you require. Will carry 29 sizes from $1/16"$ to $3/4"$ and giving the decimal and fractional size at each hole.

No. 29 Drill Holder—Each.....\$2.50

Tap Drill Sizes

Machine Screw Taps

Tap	Drill
4-36.....	No. 44
6-32.....	No. 35

Tap	Drill
8-32.....	No. 29
10-24.....	No. 24

Tap	Drill
10-32.....	No. 20
12-24.....	No. 16

U.S.S. (N.C.)

Tap
1/4"—20.....
5/16"—18.....
3/8"—16.....
7/16"—14.....
1/2"—13.....
5/8"—Pipe.....

Drill

Drill
No. 7.....
17/64".....
5/16".....
3/8".....
7/16".....

Tap

Tap
1/4"—28.....
5/16"—24.....
3/8"—24.....
7/16"—20.....
1/2"—20.....

Drill

Drill
No. 3.....
17/64".....
21/64".....
25/64".....
29/64".....

S.A.E. (N.F.)

Tap
5/8"—28.....
1/2"—24.....
3/4"—24.....
7/8"—20.....
1-1/2"—20.....

Drill

Drill

Decimal Equivalents

1/16"	= .0156	17/64"	= .2656	31/64"	= .5155	49/64"	= .7655
5/64"	= .0312	9/16"	= .2812	11/32"	= .5312	23/32"	= .7812
3/32"	= .0468	19/64"	= .2963	33/64"	= .5463	51/64"	= .7968
7/64"	= .0625	5/8"	= .3125	9/8"	= .5625	13/16"	= .8125
1/8"	= .0781	21/64"	= .3281	27/64"	= .5781	33/64"	= .8281
3/16"	= .0937	11/32"	= .3437	19/32"	= .5937	27/32"	= .8437
7/16"	= .1093	23/64"	= .3593	39/64"	= .6093	55/64"	= .8593
1/2"	= .125	3/4"	= .375	5/4"	= .625	7/4"	= .875
5/8"	= .1406	25/64"	= .3906	41/64"	= .6406	57/64"	= .8906
3/4"	= .1562	13/32"	= .4062	21/32"	= .6562	39/32"	= .9062
11/16"	= .1718	27/64"	= .4218	41/64"	= .6718	55/64"	= .9218
13/16"	= .1875	7/16"	= .4375	11/16"	= .6875	15/16"	= .9375
7/8"	= .2031	29/64"	= .4531	45/64"	= .7031	61/64"	= .9531
15/16"	= .2187	15/32"	= .4687	23/32"	= .7187	21/32"	= .9687
13/8"	= .2343	21/64"	= .4843	47/64"	= .7343	63/64"	= .9843
3/4"	= .25	3/2"	= .5	5/4"	= .75	1	= 1.0

INDEX

This catalog lists standard mechanics' tools only. We also manufacture a complete line of special units for Power Production and Maintenance Work. In addition we also make special wrenches designed to customer's specifications. Send us your specifications and we will be glad to quote you without obligation.

Power Tool Catalog

We shall be glad to mail a copy of our Power Tool Catalog, giving detailed specifications of our power units to any Plant Official, Supervisor, Engineer or Purchasing Agent requesting same on company letterhead.

Snap-on Socket Wrench Equipment

Sets	Page	Handles	Page
Extra H.D. (1" drive).....	25	Adaptors.....	30
Ferret (5/8" drive).....	6	Extension Bars.....	30
Heavy Duty (3/4" drive).....	21	Extra H.D. (1" drive).....	26
Master (1/2" drive).....	10-11-12-13	Ferret (5/8" drive).....	7
Midget (1/4" drive).....	2	Heavy Duty (3/4" drive).....	22-23
Refrigeration (5/8" drive).....	5	Master (1/2" drive).....	14-15-16
Sockets		Midget (1/4" drive).....	3
Carburetor Sockets.....	4	Nut Spinner Handles.....	28
Drag Link Adjusters.....	16	Offset Handles.....	29
Extra H.D. (1" drive).....	27	Ratchet Handles.....	28
Ferret (5/8" drive).....	8-9	Refrigeration (5/8" drive).....	5
Heavy Duty (3/4" drive).....	23-24	Sliding Tee Handles.....	29
Master (1/2" drive).....	18-19-20	Speeder Handles.....	29
Midget (1/4" drive).....	4	Speed Tee Handles.....	29
Refrigeration (5/8" drive).....	5	Stud Removers.....	17
Valve Clearance Sockets.....	17	Universal Joints.....	30
Windshield Wiper Sockets.....	3	Valve Clearance Adj. Tool.....	17

Wrench and Hand Tool Equipment

Adjustable Wrenches.....	46	Jimmy Bars.....	52
Airplane Specials.....	64-65	Knock-off Wheel Pullers.....	60
Allen Head Wrenches.....	47	Metal Tool Cases.....	10-13-21-25-69-70-71
Axle Bearing Remover.....	91	Open End Wrenches.....	37-38-39-42-43-44-45-46
Axle Pullers.....	91	Pliers (all types).....	56-57-58
Bearing Race Puller.....	91	Pipe Wrenches.....	46
Bench Grinder.....	74	Piston Pin Fitter.....	79
Body and Fender Tools.....	72-73	Punches.....	49-50-51-52
Bolt Cutters.....	92	Rim Wrench.....	47
Boxockets (all types).....	31-32-33-34-36-37-38	Ring Compressors.....	86
Brake Wrenches.....	45-46	Roller Tool Bench.....	71
Brake Pedal Jack.....	59	Screw Drivers.....	54-55
Buick Specials.....	66-67	Screw Extractors.....	53
Bushing Remover.....	52	Tap and Die Sets.....	94
Carbon Scraper.....	80	Tappet Wrenches.....	40-41
Chevrolet Specials.....	67-68	Tinners Snips.....	60
Chisels.....	48-50-51-52	Tube Flaring Tool.....	59
Clutch Aligning Tool.....	88	Tubular Wrench Handles.....	38
Combination Open End Box Wrenches.....	35-45	Universal Puller Tool.....	90
Cylinder Ridge Removers.....	88	Valve Compressors.....	82-83-84
Drills.....	95	Valve Grinders.....	85
Feeler Gauges.....	60	Valve Key Tools.....	82-84
Files.....	86	Valve Micrometer Gauge.....	85
Flexible Shaft Machine.....	75	Valve Reseating Tools.....	93
Ford Specials.....	61-62-63-78-85	Valve Stem Nut Wrench.....	47
Ford Spring Spreader.....	78	Vise Jaws.....	87
Gear Pullers.....	88-89	Wheel Pullers.....	76-77
Grinding Wheels.....	80	Wire Brushes.....	80-81
Hack Saws.....	59		
Hammers.....	53		
Hinge Pin Tools.....	87		
Hole Saws.....	80		
Ignition & Carburetor Wrenches	44		

Snap-on

Blue Point

**196
NEW
TOOLS**

In addition to the items
shown in our Catalog "K"

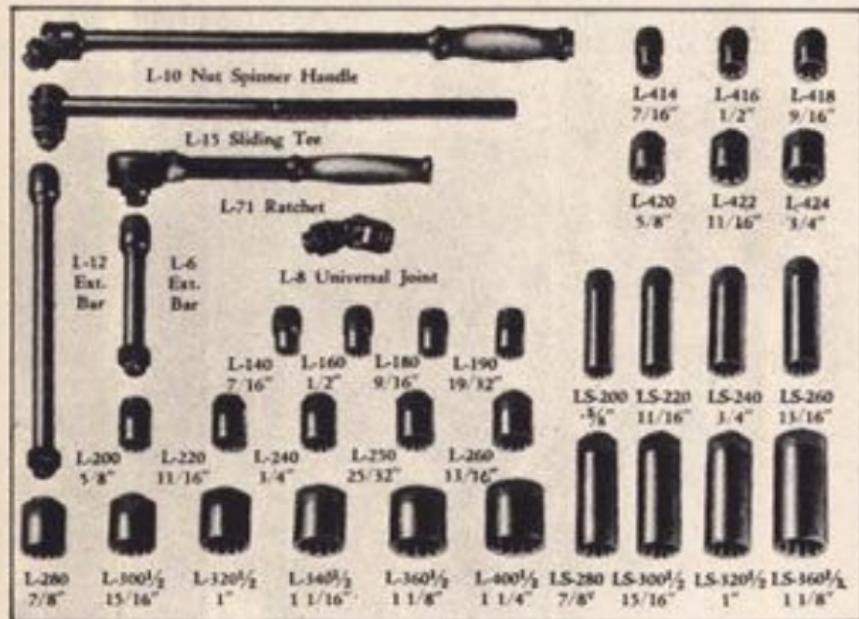
Supplementary Catalog "KS"
Issued July 15th, 1935

SNAP-ON TOOLS, INC.

Factory and Main Office, Kenosha, Wis.
Branch Warehouses in 34 Principal Cities

Loxocket "Supreme" Socket Wrench Series

SNAP-ON offers a non borrowing set of socket wrenches to the mechanic who is looking for the very best and can afford to buy a complete set. This series does not replace our regular "line" and is not interchangeable with it. It is an aristocratic first cousin and, we believe, the very best that money can buy.



Loxockets Lock On and Stay On

Once locked on they cannot fall or pull apart by accident. When you are ready to interchange units simply turn the "Locking Dial" in either direction and unlock them in one quick movement.

L-39 "Supreme" Utility Set

*The set that
you'll be
proud to own
and display.*



As the name implies, this set contains a complete range of sockets and handles necessary for general repair work purposes. The fifteen double broached thin walled hexagon sockets ranging in size from $\frac{1}{8}$ " to $1\frac{1}{4}$ ". Nut Spinner Handle, Sliding Tee Handle, Ratchet Handle, two Extension Bars, 5" and 10" long and a Universal Joint go to make up the Utility Set.

L-39—"Supreme" Utility Set, tools only \$25.10
L-39B—"Supreme" Utility Set in Metal Box 26.60

The Snap-On Line Keeps Growing Bigger and Better

L-37 "Supreme" Nut Spinner Set

CONSISTING of the 16½" Nut Spinner Handle and the complete range of fifteen double broached, thin walled hexagon sockets, sizes $\frac{1}{16}$ " to 1½".



L-37—"Supreme" Nut Spinner Set, complete in Metal Socket Holder.....

\$14.15

L-35 "Supreme" Deep Socket Set



Eight Extra Deep, Double Broached Hexagon Sockets designed for Spark Plug work, and jobs where double nuts have to be removed or where a long bolt prevents

the use of an ordinary type socket. Sizes $\frac{5}{16}$ " to 1½" inclusive.

L-35—"Supreme" Extra Deep Socket Set, tools only.....

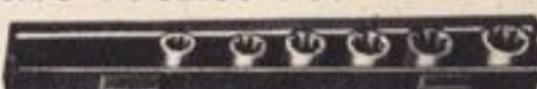
\$8.75

L-35B—"Supreme" Extra Deep Socket Set in Metal Holder.....

9.10

L-33 "Supreme" Square Socket Set

Containing six Double Broached Square Sockets, ranging in size from $\frac{1}{16}$ " to $\frac{3}{4}$ " inclusive.



L-33—"Supreme" Square Socket Set, in Metal Holder.....

\$3.15

"Supreme" Ratchet Handle

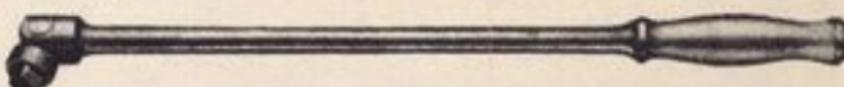


This ratchet has everything—the easiest working movement ever designed—a new matt-surfaced hand grip for greater safety—a design that's modernly handsome and the strength that professional mechanics demand.

L-71—Ratchet, 9½" long.....

\$4.45

"Supreme" Nut Spinner Handle

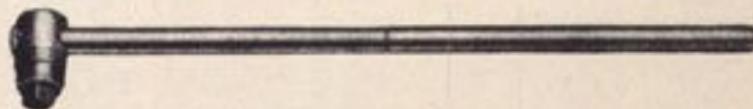


The last word in nut spinner design. The matt-surfaced hand grip is fitted with a receiving lock so that it may be used in combination with the Ratchet or Sliding Tee. The hinged head can be used at any angle to the handle and is fitted with the "Locking Dial."

L-10—Nut Spinner, 16½" long.....

\$3.75

"Supreme" Sliding Tee Handle

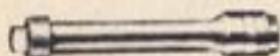


A combination Sliding Tee and Offset Handle which can be used in combination with any "Supreme" Loxocket Unit. A spring lock holds the sliding head in center position for use as a Tee Handle. Overall length 15".

L-15—Sliding Tee Handle.....

\$2.15

"Supreme" Extension Bars



LENGTHENS the reach of the Ratchet, Nut Spinner and Sliding Tee Handles. Fitted with the "Locking Dial" and accurately milled and finished. Made in two lengths.

L-6—Extension Bar, 5' long. Each	\$1.15
L-12—Extension Bar, 10' long. Each	1.25

"Supreme" Universal Joint

The slender, short construction enables its use in the very closest of places. Working freely at nearly a 90° angle it converts every "Supreme" Loxocket into a flexible type wrench. Note that the "Locking Dial" is no wider than the shank of the joint.

L-8—Universal Joint. Each \$1.95



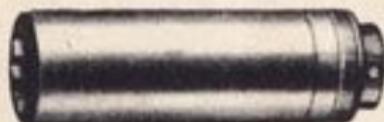
"Supreme" Hexagon Loxockets



These are the finest examples of socket wrench equipment ever developed and are offered for the man who takes pride in his tool kit and knows the value of good tool equipment. They are comparable to other types of socket wrenches only as a Hamilton Timepiece can be compared to a dollar watch. We have built into these tools every possible refinement in socket wrench design and made it the outstanding investment ever offered the trade.

No.	Size	Each	No.	Size	Each
L-140	7/16"	\$0.55	L-260	15/16"	\$0.65
L-160	13/16"	.55	L-280	7/8"	.70
L-180	9/16"	.55	L-300 1/2	15/16"	.80
L-190	19/32"	.55	L-320 1/2	1"	.80
L-200	5/8"	.55	L-340 1/2	1 1/16"	.95
L-220	11/16"	.60	L-360 1/2	1 1/8"	.95
L-240	3/4"	.60	L-380 1/2	1 1/16"	.95
L-250	25/32"	.65	L-400 1/2	1 1/4"	.95

"Supreme" Extra Deep Loxockets



No.	Size	Each	No.	Size	Each
LS-200	5/8"	\$0.90	LS-280	7/8"	\$1.10
LS-220	11/16"	.90	LS-300 1/2	15/16"	1.25
LS-240	3/4"	1.00	LS-320 1/2	1"	1.25
LS-260	25/32"	1.00	LS-360 1/2	1 1/8"	1.35



"Supreme" Square Sockets

No.	Size	Each	No.	Size	Each
L-414	7/16"	\$0.45	L-420	5/8"	\$0.55
L-416	13/16"	.50	L-422	11/16"	.55
L-418	9/16"	.50	L-424	3/4"	.60

"Supreme" Loxocket Adapter

This unit makes it possible for you to use any standard socket having a half inch square drive on any of these "Supreme" Loxocket Handles. LA-5—"Supreme" Adapter. Each \$0.65



It is not a genuine Snap-on without the name

Reg. U. S. Pat. Off.

Special Magneto Sockets

TWO new sizes of Midget Hexagon Sockets which are in special demand for magneto and other electrical purposes.

MI-15— $15\frac{1}{4}$ " is needed on the Scintilla magneto such as used on Pratt and Whitney aircraft motors. Each.....

15c

MI-17— $17\frac{1}{4}$ " is used on Eiseman Magneto. Each.....

15c



Additional Ferret Flexockets

TWO new sizes have been added to the Ferret Flexocket Series and will greatly increase the value and utility of this line.

FU-22— $11\frac{1}{4}$ " Opening. Each.....

\$1.45

F-24— $\frac{3}{4}$ " Opening. Each.....

1.45



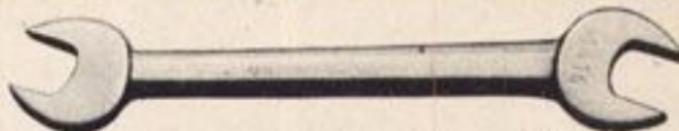
New Ferret Universal Joint



Shorter and more slender than previous types of Ferret Universals, this new unit will work in extremely restricted places and get those nuts which other tools cannot reach.

F-80—Ferret Universal Joint. Each. \$1.35

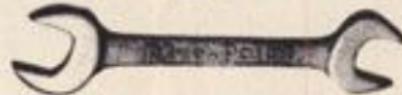
"Supreme" Open End Wrenches



Four new sizes have been added to this line and the complete range is now as follows.

No.	Sizes	Price	No.	Sizes	Price
S-1214	$\frac{1}{2}$ " & $\frac{7}{8}$ "	\$0.55	S-2024	$\frac{5}{8}$ " & $\frac{3}{4}$ "	\$1.00
S-1416	$\frac{7}{8}$ " & $\frac{1}{2}$ "	.60	S-2224	$1\frac{1}{8}$ " & $\frac{3}{4}$ "	1.00
S-1618	$1\frac{1}{2}$ " & $\frac{9}{16}$ "	.70	S-2526	$1\frac{1}{16}$ " & $1\frac{15}{16}$ "	1.35
S-1820	$1\frac{1}{2}$ " & $\frac{13}{16}$ "	.90	S-2428	$1\frac{1}{4}$ " & $1\frac{1}{16}$ "	1.35
S-1922	$1\frac{1}{2}$ " & $1\frac{15}{16}$ "	1.00	S-3032	$1\frac{15}{16}$ " & 1"	1.60
S-2022	$\frac{5}{8}$ " & $1\frac{15}{16}$ "	1.00	S-3436	$1\frac{1}{16}$ " & $1\frac{15}{16}$ "	2.00
BPS-10 Set: Containing one each of the above units except S-2022 and S-2224. Tools only.			\$11.05		
BPS-10K Set: Above set in C-11 Kit Bag.			11.50		

New Short Open End Wrench



This is an addition to the series shown on page 44 of the 1934 catalog and provides a combination of sizes which are in popular demand.

J-2022 $\frac{5}{16}$ " and $\frac{11}{16}$ " openings. Each.....

45c

Drop Center Tire Tool

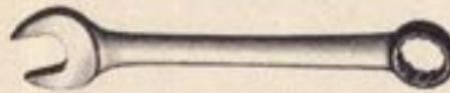
The sliding hook catches the hub of the wheel and holds the tire in position while a second tire tool is being inserted.

Drop center rims are used on most of the late model cars and need such a tool as this.

CG-23 Drop Center Tire Tool. Each.... 95c

Deal With the Man Who Wears the Snap-On Coveralls

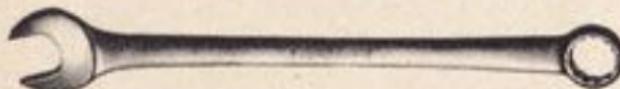
Short Handle Comb. Wrenches



NEW sizes have been added to the line and the complete range is now as follows.

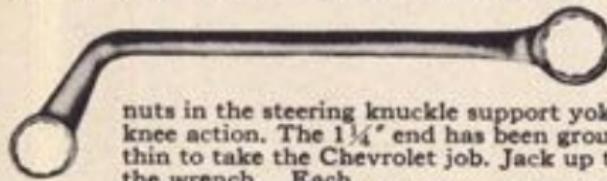
No.	Size	Price	No.	Size	Price
OEX-140	7/16"	\$0.75	OEX-200	5/8"	\$0.90
OEX-160	1 1/2"	.80	OEX-220	11/16"	1.05
OEX-180	9/16"	.85	OEX-240	3/4"	1.20

Long Handle Comb. Wrenches



No.	Size	Price	No.	Size	Price
OEX-16	3/4"	\$0.85	OEX-22	11/16"	\$1.15
OEX-18	9/16"	.90	OEX-24	3/4"	1.30
OEX-20	5/8"	1.00			

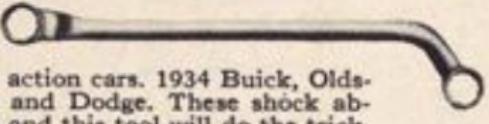
Knee Action Boxocket Wrench



S-9598—1 1/4" & 1 1/2" openings. Designed to service the large

nuts in the steering knuckle support yokes on all cars using knee action. The 1 1/4" end has been ground down especially thin to take the Chevrolet job. Jack up the car before using the wrench. Each.....\$2.50

Lovejoy Shock Absorber Wrench

S-9455—A special Boxocket Wrench designed to service the Lovejoy front shock absorber on the following knee action cars. 1934 Buick, Oldsmobile, Chrysler, Plymouth and Dodge. These shock absorbers have to be resurfaced and this tool will do the trick. Each.....		\$1.40
---	---	--------

Sledge Type Boxockets

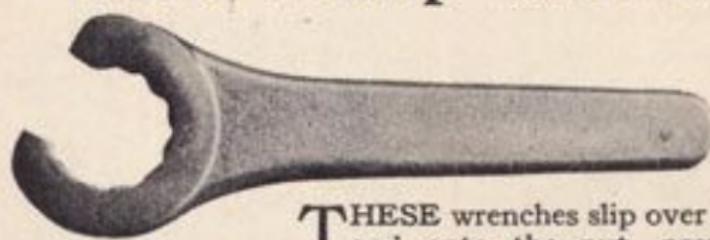


Powerfully built tools designed for such tough nut turning jobs as those in large power plants, bridge construction jobs, etc. The anvil end takes the blows from a sledge hammer and draws the toughest bolt tight.

No.	Size	Price	No.	Size	Price
X-146	17/16"	\$12.20	X-188	2 3/4"	\$18.50
X-152	1 5/8"	12.40	X-194	2 15/16"	19.50
X-158	11 13/16"	13.50	X-1100	3 1/8"	20.75
X-164	2"	14.75	X-1112	3 1/2"	23.50
X-170	2 3/16"	15.50	X-1124	3 7/8"	27.00
X-176	2 3/8"	16.50	X-1136	4 1/4"	29.00
X-182	2 9/16"	17.50	X-1148	4 5/8"	33.00

Your Mail Orders Will Receive Prompt Attention

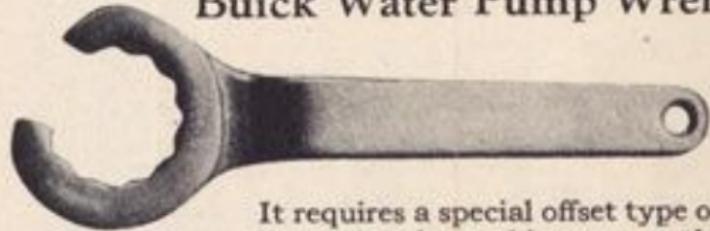
Water Pump Wrenches



THESE wrenches slip over the shaft and onto the nut, providing a positive non-slip grip and preventing any danger of damage to the nut. The double hexagon allows them to work in very close places.

No.	Size	Price	No.	Size	Price
924	$\frac{3}{4}''$	\$0.65	942	$1\frac{5}{16}''$	\$0.85
928	$\frac{7}{8}''$	.70	944	$1\frac{3}{8}''$	.90
932	1''	.70	946	$1\frac{1}{16}''$	.95
934	$1\frac{1}{16}''$	.75	948	$1\frac{1}{2}''$	1.00
936	$1\frac{1}{8}''$	.80	952	$1\frac{5}{8}''$	1.10
938	$1\frac{3}{16}''$	.85	956	$1\frac{3}{4}''$	1.20

Buick Water Pump Wrench



It requires a special offset type of wrench to service the packing nut on the No. 50 series Buick. We recommend the use of this tool as being especially designed for the job.

S-9895—Buick Water Pump Packing Nut

Wrench. Each..... \$0.85

Midget Handy Pliers

HERE is a handy little tool which every mechanic will want. It has full fashioned handles, ease of action and plenty of gripping power, and can be used to good advantage on radio, ignition and many other small jobs.



No. 5 Midget Pliers. Each..... 85c

Brake Key Pliers

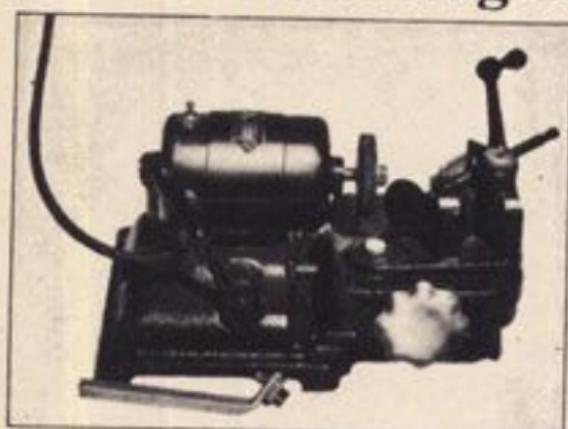
A right handy instrument for spreading the horseshoe type of brake key in order to remove them from the brake assembly.



Tip of the blades are toothed on the outside to prevent danger of the tool slipping.

A-66—Brake Key Pliers. Each..... \$1.25

Valve Refacing Machine



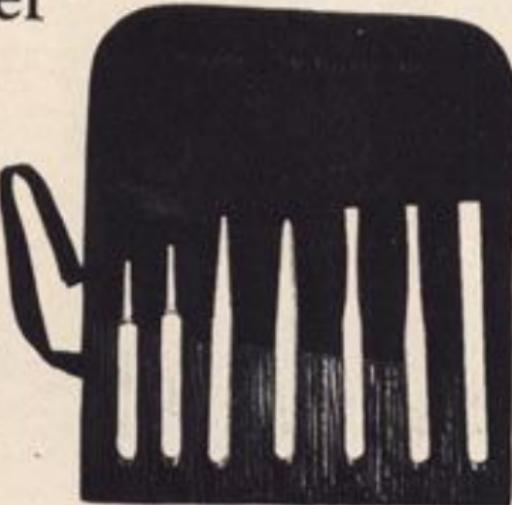
This precision machine is the only motor driven, hand operated valve refacer offered in a popular price range and provides maximum value in this type of automotive equipment. It is the only machine that grinds valves accurately without the use of an automatic chuck, it takes all lengths and sizes of valves and is adjustable from 15 to 90 degrees. The

valve is held in a firm grip which assures a true position and prevents danger of wobbling.

Grinding wheels are the finest obtainable and working at high speed do such a smooth job that lapping is not needed. All adjustments are made from external screws working on tapered gibbs, a feature found only on the very expensive machines. A diamond Dresser dresses both side and edge of the wheel. Motors furnished as standard run on 110 AC volts, but we can supply 16 volt or 32 volt motors on special order.

A-100—Valve Refacer Machine..... \$39.75

Midget "Supreme" Punch and Chisel Set



UNTIL you see this new set you have no idea what a really good Midget Set of Punches and Chisels looks like. Seven different units comprise the set and offer you the handiest little outfit you ever saw for those radio, electrical and other small jobs. The set consists of the following tools which are built of the same Semi High Speed Steel as the larger "Supreme" punches and chisels, and are finished in chrome plate. All are made from $\frac{3}{16}$ " square stock.

Drift Pin Punch, 3" long, $\frac{1}{16}$ " point.

Drift Pin Punch, 3 $\frac{1}{4}$ " long, $\frac{1}{16}$ " point.

Starter Pin Punch, 3 $\frac{1}{4}$ " long, $\frac{1}{16}$ " point.

Center Punch, 3 $\frac{1}{4}$ " long.

Cape Chisel, 3 $\frac{1}{4}$ " long, $\frac{1}{16}$ " edge.

Round Nose Cape Chisel, 4" long, $\frac{1}{16}$ " nose width.

Flat Cold Chisel, 4 $\frac{1}{4}$ " long, $\frac{1}{16}$ " edge.

SVP-7—Midget "Supreme" Punch and Chisel Set

in kit bag..... \$1.95

Offset Screw Driver

No. 060 — Especially

good for drag link and

shock absorber work.

$\frac{1}{2}$ " octagon stock, blades

$\frac{1}{2}$ " wide, $\frac{1}{16}$ " thick, length 7". Each.....

75c

In Ordering by Mail Please Give Stock Number

Wood Handles for Files



Birch Handles with a special die-cast metal ferrule which fully supports the handle against splitting at the file tang opening. It is a handle that will give long satisfactory service.

102-E—For 6" and 8" files. Each.....	11c
103-E—For 8" and 10" files. Each.....	12c
104-E—For 12" and 16" files. Each.....	14c



Thread Restoring File Set

These two thread restorers cover most of the thread sizes which the mechanic is liable to need to work on. A few strokes across battered threads produces a true clean thread which will take the nut perfectly.

No. 2411—Thread Restorer, sizes 11, 12, 13, 14, 16, 18, 20 and 24 threads to the inch. Each.....	\$1.50
No. 3209—Thread Restorer, sizes 9, 10, 15, 16, 20, 26, 28 and 32 threads to the inch. Each.....	1.50
TR-2—Set of the two above thread restorers in Kit Bag...\$2.95	

Drill Holder and Index



We believe this to be the most convenient drill case ever offered the trade. It takes drills $\frac{1}{16}$ " to $\frac{1}{2}$ " and makes it easy to locate any particular size drill. The three hinged holders fold flat into the box which can be locked in the tool chest. It protects drill from damage or theft and can be used as a drill gauge.

H-129 Drill Holder — Capacity $\frac{1}{16}$ " to $\frac{1}{2}$ ", \$3.00.

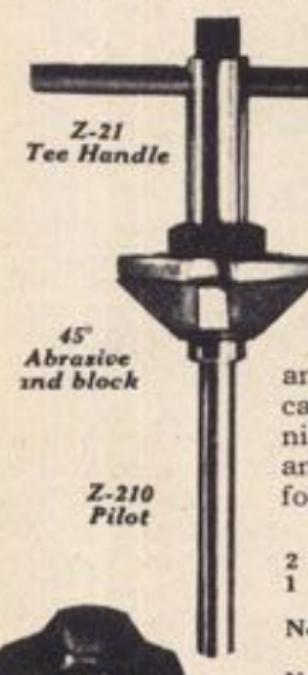
H-113 Drill Holder — Capacity $\frac{1}{16}$ " to $\frac{1}{4}$ "... \$1.10

Tap Drills

These drills are needed for machine screw taps and are now carried in our standard stock.

No.	For Tap	Price	No.	For Tap	Price
44	4-36	\$0.15	16	12-24	\$0.30
35	6-32	.20	7	U.S.S. (N.C.)	
29	8-32	.20		$\frac{1}{4}$ "-20	.30
24	10-24	.25	3	S.A.E. (N.C.)	
20	10-32	.25		$\frac{1}{4}$ "-20	.35

Valve Seat Abrasive Grinders and Accessories



ARE YOU prepared to service the hard valve seats now being used on many of the new cars? Snap-on offers a combination which will do a better job than other units costing many times more. Interchangeable abrasive sheets are fitted snugly to die cast steel blocks accurate to 45° or 30° angles and will service about 85% of cars and trucks. Abrasives are furnished fine (100 grit) or coarse (80 grit) and we recommend a separate block for each type.

No. 700 Set

2 No. 730—Steel Blocks, 45°	\$3.50
1 No. 740-D—Pkg. Abrasives, 6 fine, 6 coarse	1.50
No. 700—Set Complete	\$5.00

30 Degree Abrasive Grinders

No. 731—30° Abrasive Grinder Block	\$1.75
No. 741-A—30° Fine Abrasive Sheets, dozen	.50
No. 741-B—30° Coarse Abrasive Sheets, dozen	.50

The above tools fit any standard pilots and arbors, but we recommend and can supply the following units.

Z-21—Tee Handle and Tapered Shank	\$0.50
Z-200— $\frac{5}{16}$ " Pilot	.25
Z-201— $\frac{5}{16}$ " plus .001	.25
Z-202— $\frac{5}{16}$ " plus .002	.25
Z-203— $\frac{5}{16}$ " plus .003	.25
Z-210— $\frac{11}{16}$ "	.25
Z-220— $\frac{11}{16}$ "	.25
Z-240— $\frac{5}{16}$ " Pilot	.25
Z-241— $\frac{5}{16}$ " plus .001	.25
Z-242— $\frac{5}{16}$ " plus .002	.25
Z-250— $\frac{11}{16}$ "	.25
Z-280— $\frac{11}{16}$ "	.25
Z-380— $\frac{11}{16}$ "	.25

Electric Drill Attachments

These units adapt the above tools to electric drill units and provide a flexible joint connection.

No. 745—Ball Socket Drive	\$0.50
No. 747—Ball Socket Adaptor	.50



Cutter Arbor for Expansion Pilots

This unit is required for use with the Expansion Pilots listed below. The AT-496 Arbor Turning Wrench shown on page 17 is used as a handle for this combination and offers an excellent adaptation of expanding pilots for those who require them.

No. CA-498—Cutter Arbor	\$1.65
AT-496—Arbor Turning Wrench	.50

Expansion Pilots

XP-580— $\frac{5}{16}$ "	\$2.50
XP-581— $\frac{11}{16}$ "	2.50
XP-582— $\frac{11}{16}$ "	2.50
XP-583—.368"	2.50

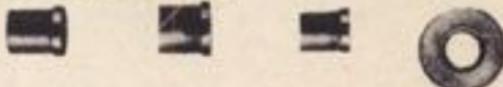
Blue Point Quality Will Repay You

Adaptor for Kwikway Arbors

Kwikway Valve Seat Reamers use a straight shank on their pilots therefore it is necessary to use an adaptor to hold the abrasive grinders on Kwikway Pilots.

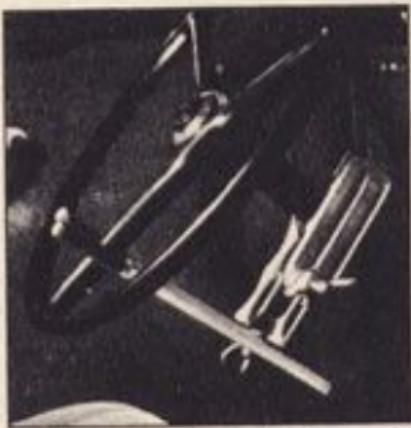
No. 749— $\frac{5}{8}$ " Pilot Shank Adaptor

\$0.95

**Bronze or Steel Bushing Tool**

REMOVES or replaces all bushings with inside diameter of $\frac{1}{16}$ ", $\frac{5}{16}$ ", $\frac{11}{16}$ ", and $\frac{3}{4}$ " and all outside diameters up to 1" and not exceeding 3 ft. in length.

No.	Part	Price	No.	Part	Price
A-57-1	Sleeve	\$0.70	A-57-6	$\frac{11}{16}$ " Adaptor	\$0.20
A-57-2	Screw	.90	A-57-7	$\frac{5}{8}$ " Adaptor	.15
A-57-3	Thick Washer	.20	A-57-8	$\frac{3}{16}$ " Adaptor	.15
A-57-4	Thin Washer	.20		$\frac{3}{2}$ " U.S.S. Nut	.05
A-57	Bushing Tool Complete				\$2.75

Fit-All Tow Clamp

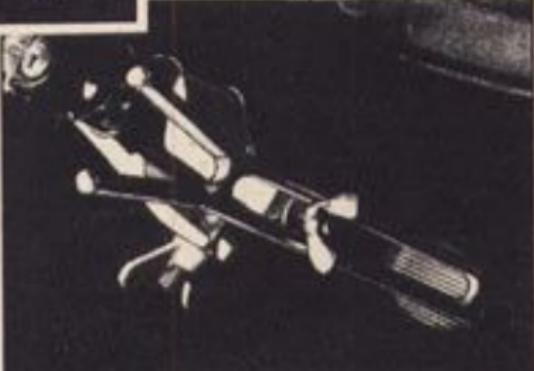
If you ever had a towing job to do you will appreciate the value of such a tool as this. It attaches to the steering wheel of any make or model car and locks it in any position, takes only a few seconds to attach and protects the steering hook-up from injury. No need to lock the wheel by roping it to door handles, etc., no excuse for sideswiping anything because of the front wheels being free to whip. A leather lining protects the steering column from damage and the steering wheel forks are rubber covered.

It Makes An Excellent Brake Pedal Jack

It can be set at any position on the steering column and has an adjustable sliding action which adapts it to almost any car on the market. It cannot slip, cannot scratch the car finish, and, unlike other brake pedal jacks, does not connect with or damage the front seat. Putting it mildly, it's a mighty fine double purpose tool and will be of great value in every shop.

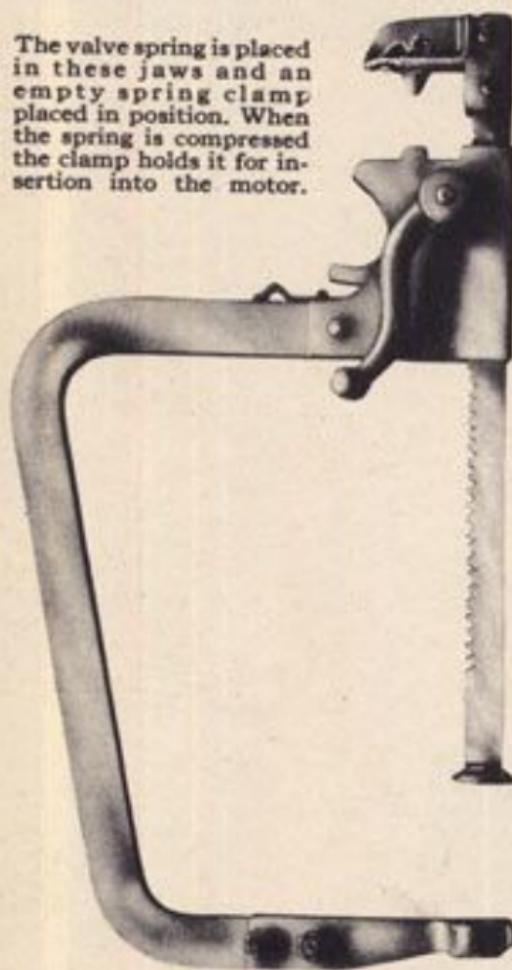
TC-100—Fit-All Tow Clamp

\$3.50



Lincoln - Cadillac Valve Lifter

The valve spring is placed in these jaws and an empty spring clamp placed in position. When the spring is compressed the clamp holds it for insertion into the motor.



THE Lincoln and Cadillac "V" type motors require a special shaped valve lifter to properly service the job and we offer this tool as entirely satisfactory. The handle contains a ratcheting device which allows the tool to be used in very restricted places and the geared plunger can be locked at any position.

The jaws are made from spring steel and are exceptionally thin, allowing maximum room for removing the spring keys.

A set of spring clamps are provided with each tool for holding the springs compressed ready

for insertion into the motors. It will be recommendation enough for most mechanics when we say that this tool is similar in manufacture and quality to the famous "Little Wonder Valve Lifter."

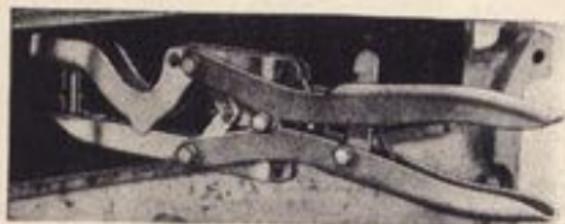
LW-800—Lincoln-Cadillac Valve Lifter. Each....\$7.50

Hand Valve Lifter

An improved speedier and easier to use valve lifter. Fitted with two flexible spring jaws, one straight and the other a special offset. This tool services more than 97% of all automobile motors made. No adjustments—no attachments.

In servicing the model "A" Ford, reverse the position of the tool and insert the straight jaws through the spring coil.

LW-400 Hand Valve Lifter. Each.....\$2.50



All Prices Quoted Are Net to the Trade

Dodge-Plymouth Valve Lifter

CF-9 Valve Lifter is designed especially for the 1935 Dodge and Plymouth motors. This tool has the lever placed lower on the "C" Frame so that the mechanic easily and handily operates it thru the fender opening. Jaws are the new, improved special type for the smaller spring collars and give more room for removing the split valve keys. They come up from below so that the spring is compressed without removing the manifold.



CF-9 Plymouth and Dodge Valve Lifter.....\$5.45

Chrysler Valve Lifter

This is a special Valve Lifter designed to service valves on 1934 and 1935 Airflow Chrysler and all 1935 Chrysler Airstream models.

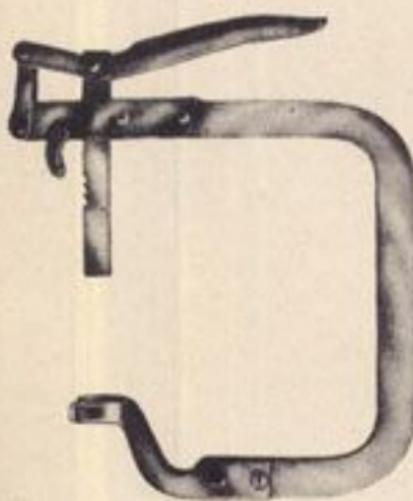


CF-10 Valve Lifter for Chrysler

Each.....\$5.95

The **CF-10** Lifter will compress the springs on all these motors without removing the manifold from the block. The push rod automatically centers itself and will not slip off the valve head, it is adjustable to all lengths of valve stems.

Plymouth - Dodge Valve Lifter



IT raises the valve springs without having to remove the manifold, fuel line or anything else and is one of the few valve lifters on the present market which will handle these jobs under those conditions. Notice the offset jaws. They are made deep enough to clear Plymouth and Dodge manifolds which hang down almost flush with the coil spring. These jaws are spring tempered and will

hold firmly to the valve spring until released. The lock is a simple device placed at a convenient point. It hangs loosely and is almost automatic in its action and release. The first locking notch in for Plymouth and the second for Dodge.

LW-700 Valve Lifter. Each.....\$2.95

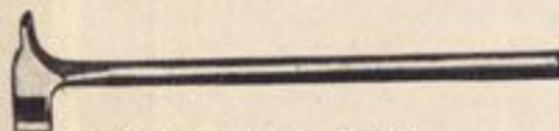
Hudson - Terraplane Valve Lifter

The LW-900 Valve Spring Compressor has been developed especially for the Hudson-Terraplane automobiles, and we understand that it is now being highly recommended by the Hudson Factory.

It is quick and handy to use, provides plenty of room for removing the spring keys and will not slip on the job. The plunger is fitted with three adjusting holes in the upper end of the bar for adjusting to the various heights of the Valve stems.

LW-900 Hudson-Terraplane Valve Lifter. Each \$3.00

Hammerhead Screw Drivers



H-50— $\frac{1}{2}$ " blade, 7" long, Each.....75

Improved type of hammerhead screw drivers—one blade parallel with handle and the other at right angles.

Additional Sizes Hole Saws



SEVERAL additional sizes have been added to the line of Blue-Point Hole Saws and we are now able to offer any of the following.

ing sizes.	No.	Saw only	Price	No.	Saw only	Price
*HS-24-A	$\frac{3}{4}$ " Dia.	\$0.75		HS-72-A	$2\frac{1}{4}$ " Dia.	\$1.75
*HS-28-A	$\frac{5}{8}$ " Dia.	.75		HS-76-A	$2\frac{3}{4}$ " Dia.	1.75
*HS-32-A	1"	.75		HS-80-A	$2\frac{1}{2}$ " Dia.	1.75
*HS-36-A	$1\frac{1}{8}$ " Dia.	.75		HS-84-A	$2\frac{5}{8}$ " Dia.	1.75
*HS-40-A	$1\frac{1}{4}$ " Dia.	.75		HS-88-A	$2\frac{3}{4}$ " Dia.	1.75
*HS-44-A	$1\frac{3}{8}$ " Dia.	.75		HS-92-A	$2\frac{7}{8}$ " Dia.	1.75
*HS-48-A	$1\frac{1}{2}$ " Dia.	1.00		*HS-96-A	3"	1.75
HS-52-A	$1\frac{5}{8}$ " Dia.	1.00		HS-100-A	$3\frac{1}{8}$ " Dia.	1.75
HS-56-A	$1\frac{3}{4}$ " Dia.	1.25		HS-104-A	$3\frac{1}{4}$ " Dia.	1.75
HS-60-A	$1\frac{7}{8}$ " Dia.	1.25		HS-108-A	$3\frac{3}{8}$ " Dia.	1.75
HS-64-A	2"	1.25		HS-112-A	$3\frac{1}{2}$ " Dia.	1.75
HS-68-A	$2\frac{1}{8}$ " Dia.	1.75				
*HS-31—Mandrel with $\frac{1}{4}$ " Pilot Drill. (Fits saws $\frac{3}{4}$ " to $1\frac{1}{2}$ " diameter)						\$1.00
*HS-33—Mandrel with $\frac{1}{4}$ " Pilot Drill. (Fits saws $1\frac{1}{8}$ " to $3\frac{1}{2}$ " diameter)						\$1.00
*Stock Items—others Special Order						

Tube Cutter

Here's a little tool that will end your tube cutting troubles. It cuts any copper, brass, bronze or similar tubing from $\frac{1}{8}$ " to 1" diameter.



$\frac{1}{8}$ " to 1" diameter. The cutter wheel is made from exceptionally strong

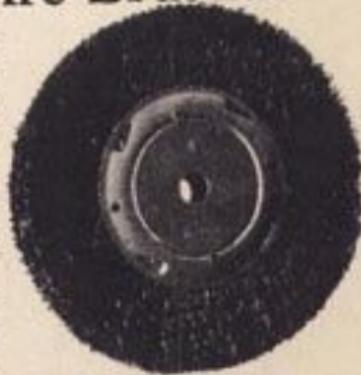
steel and the very thin edge cuts cleanly through the entire thickness of the tubing—you don't have to wrestle the tube apart. Cutter wheels can be replaced at nominal cost. The "V" shaped section acts as a tube reamer, doing a serviceable job and making the tool really two units in one. It's built to last and does the work.

No. 27—Tubing Cutter. \$1.75

Additional Wire Brushes

Two new, light wire brushes designed for polishing and cleaning small parts such as ignition and carburetor units. These wheels are only $\frac{5}{16}$ " thick and made from very fine wire, completely assembled between steel discs. Specify the size arbor hole required.

A-201—4" Diam. Wheel. \$0.75
A-202 6" Diam. Wheel. 1.10



Special Ford Tools "V-8" Headlight Sockets



THESE sockets are for servicing the locking nut on the V-8 headlights. The slotted wall allows room to work over the lamp cable and remove the nut in a series of short turns. Can also be used on Hudson-Terraplane. S-9033— $1\frac{1}{8}$ " Opening. For 1933-'34 models. Each..... \$0.75
S-9037— $1\frac{1}{16}$ " Opening. For 1935 models. Each..... .80



Ford Truck Axle Housing Socket Wrench

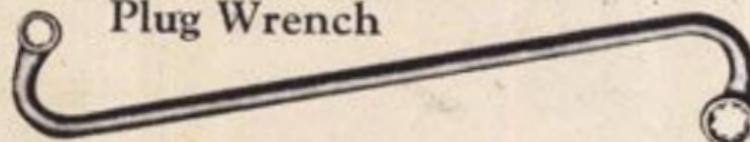
A 3" socket of special design made to service the narrow locking nut on the Ford Axle Housing. This socket is far handier to use on this job than any other type of wrench and will prove of value in every Ford shop. Any standard $\frac{3}{4}$ " square drive handle can be used with it. S-9079—Axe Housing Socket. Each..... \$3.25

"V-8" Gas Tank Turret Wrench



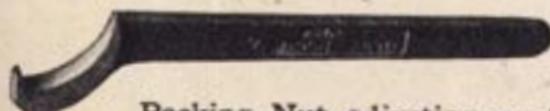
To prevent leakage at the joint between the filler neck and the Gas Tank, the Turret nut must be kept tight. It is impossible to tighten this nut without the proper wrench as it is built of soft material and easily damaged. This connection must be disconnected also when removing and replacing the left rear fender. S-9070—Gas Tank Turret Wrench. Each..... \$1.00

"V-8" Shock Absorber Filler Plug Wrench



Special Boxocket Wrench with $1\frac{1}{16}$ " square and $1\frac{1}{8}$ " hexagon openings for servicing filler plugs on late model shock absorbers. This tool is very essential where rear shock absorbers set in the frame channel. S-9075—Filler Plug Wrench. Each..... \$1.60

Ford-Pontiac Water Pump Tool



S-9082 — Special tool designed for Water Pump

Packing Nut adjusting on 1935 Pontiacs and Fan belt on the V-8 Ford. Each..... 75c

Ford "V-8" Bushing Remover

VALVE bushings on the 1934-'35 Ford V-8 motors are often burned into the block so that it is impossible to push them out above the block in the usual manner. In these cases it is necessary to remove the horseshoe keys and spring and to force the bushing down through the block. This new bushing remover is designed for this purpose and has been made shorter than previous types in order to work satisfactorily on all V-8 models including the 1934-'35. NSV-9010—Valve Bushing Remover. Each..... \$0.60

Our Specialized Tool Service Has Won Us Many Friends

Ford Shackle Bushing Tool

Provides an easy method of removing or replacing the spring and perch shackle bushings on Ford cars. Complete instructions are included with each tool.



Parts For 1933-'34 Models

S-9086-A—Housing	.....	\$2.75	S-9086-D—Pusher	.....	\$0.30
S-9086-B—Screw	.....	.85	S-9086-E—Pilot	.....	.30
S-9086-C—Pilot	.....	.30	S-9086-F—Pusher	.....	.30
S-9086—Tool for 1933-'34 Ford	.....				\$4.75

Additional Parts for 1935 Ford

S-9086-H—Pilot	.....	\$0.70
S-9086-I—Pusher	.....	.50
S-9086-J—Ext. Pusher	.....	.35
S-9086-K—Ext. Pilot	.....	.45
S-9086-35—Tool for all V-8 models, includ- ing 1935	.....	\$6.75

*AT-496
Arbor
Turning
Wrench*

*RN-20
Special
3-in-1
Cutter*

*XP-588
11/16"
Expansion
Pilot*

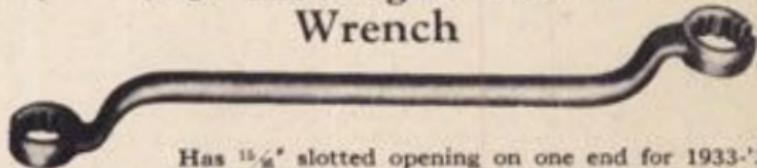


Ford Valve Seat Cutter For Model "A"

If you want a tool that will cut your valve reseating time in half on model "A" Fords, here it is. The tool is made on a new principle and offers a reseater with the 45°, 75°, and 15° angles all on the same cutter. A few turns and you have a new seat of the correct width and with the seat in proper relation to all other valves in the block.

RN-20—Special 3-in-one Cutter	.....	\$4.00
AT-496—Arbor Turning Wrench	.....	.50
XP-588—11/16" Expansion Pilot	.....	3.00
RN-200—Set Complete. Special Price	.....	\$3.95

"V-8" Headlight Boxocket Wrench



Has $15/16$ " slotted opening on one end for 1933-'34 V-8 Headlights and $13/16$ " slotted opening on the other end for 1935 V-8 Headlights. The slotted openings permit placing the wrench over the adjusting nut without disconnecting the wiring. Can also be used on Hudson-Terraplane models. An indispensable tool in every repair shop.

S-9089—V-8 Headlight Adjusting Wrench. Each..... \$2.00

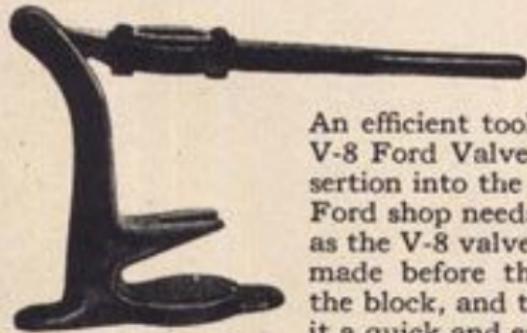
Ford Mechanics Need These Special Tools

Ford "V-8" Valve Lifter



We offer this tool to those Ford mechanics who prefer the bar type Valve Lifter for V-8 models. The offset head and double slot enable its use on both upper and lower compressing jobs on all V-8 Valve Springs. Overall length of the tool is 24". S-9088 Ford Valve Lifter. Each . . . \$1.95

Ford "V-8" Valve Spring Compressor and Assembly Tool



An efficient tool for assembling the V-8 Ford Valve units ready for insertion into the motor block. Every Ford shop needs a tool of this kind as the V-8 valve assemblies must be made before they are replaced in the block, and this little tool makes it a quick and easy operation. It's a time saver and a right handy tool. The valve is placed, head down, in the tool and the bushing and spring put into position. Downward pressure on the handle will compress the spring enough to provide room for replacing the small horseshoe key.

S-9071—Ford Assembly Tool. Each \$3.00

Ford "V-8" Motor Jack



In order to drop the crankcase on the V-8 Ford, the motor must be raised. This is done very conveniently with this new tool which is used to raise the front end of the motor when removing the crankcase. This job can be done without removing the hood and with the car in any position on the garage floor. When the fan pulley nut has been removed, the threaded bolt on the end of the tool is screwed into the crankshaft and the foot of the tool allowed to rest on the chassis cross member. The motor is then easily raised by turning the large screw shaft.

S-9073—Ford Motor Jack.
Each \$4.25

Good Tools Are Your Stock in Trade

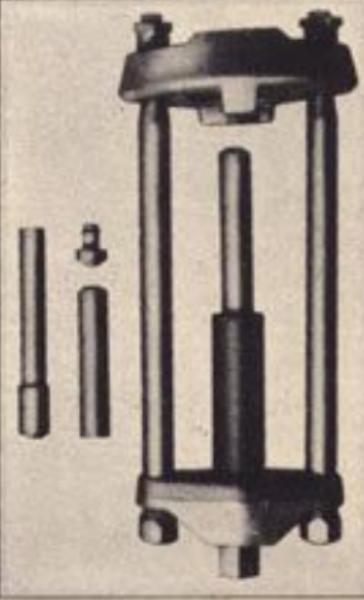
King Pin Remover

Ford-Chevy-Plymouth

THE chief feature of this tool is its solid, strong construction. This is a job which requires plenty of strength and the tool has been designed with this in mind. The front wheel is removed and the two upright rods slipped over the axle and steering knuckle plate. The upper end piece swivels to fit snugly on all models and fits over the head of the king pin. Various pilots adapt the tool to the various models of Ford, Chevrolet and Plymouth. This tool has been thoroughly tested and proved in actual use in service garages and we recommend it as the only really satisfactory tool on the market for this tough job. Directions for using are included with each tool.

CG-21—King Pin Remover

..... \$7.50



Special Boxockets for Lincoln V-8 and V-12

A set of three units especially designed for and approved by the Ford Motor Company for use on Lincoln V-8 and V-12 engines. The set consists of three pieces: a wrench for the outside cylinder base nuts, a wrench for the inside cylinder base nuts and a box-socket type handle. These tools are indispensable for removing or replacing cylinder blocks on the various V-8 and V-12 engines. The set replaces the old Ford Universal Socket Wrench No. 5-Z-881

No. 5-Z-4033, Complete Set \$5.90

Special Chevrolet Tools



Cylinder Head Wrench

A DOUBLE end wrench of special design with a $\frac{3}{4}$ " double hexagon boxocket on one end and a $\frac{3}{4}$ " double hexagon socket type opening on the other. This tool takes all cylinder head bolts on Chevrolet models.

S-9594—Cylinder Head Wrench. Each \$1.50



Chevy Main Bearing Socket

S-9504—A single broached, thin walled socket made especially for tightening main bearings on 1931 to 1933 Chevrolet cars. Each 40c

Blue-Point Quality Sets a National Standard

